

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

SEPTEMBER 1, 1954



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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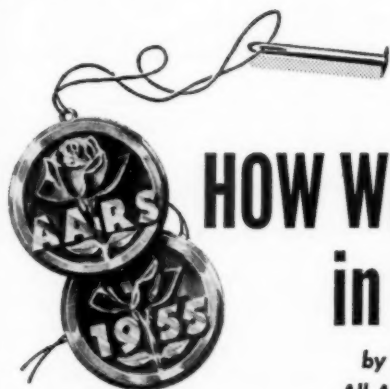
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Forms for the September 15 issue will close Friday, August 27.

Forms for the October 1 issue will close Friday, September 17.

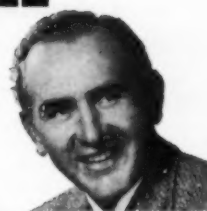
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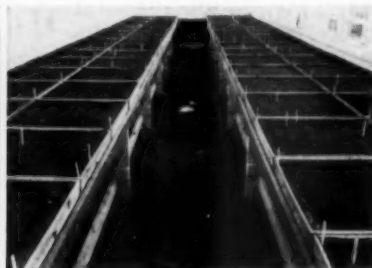
HOW WE FOUND THE NEEDLE in the HAYSTACK!

by Robert V. Lindquist, Originator of Lilibet,
All-America Rose Selections Award Winner 1954

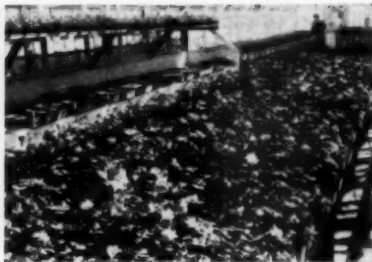
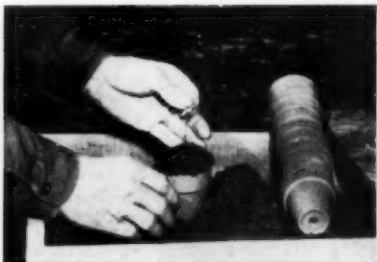
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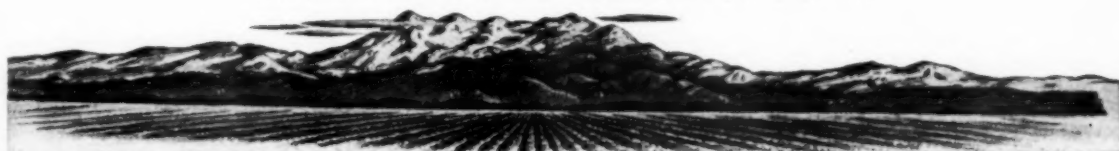


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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

KENNETH A. BRENT
Managing Editor

Editorial

ADVERTISING OR CHARITY

Few merchants in his locality are called upon so frequently for contributions to the work of charitable organizations and civic betterment groups as is the nurseryman. So long as he donates his money or even his personal time to such activities, he can maintain a relatively fair proportion with the other local merchants. But because of the nature of his merchandise, he is subject to calls for gifts of his business wares and services that are beyond the requests made in other lines of business. He is asked to provide some stock to plant about a church or a school or an organization home, with a mention in a program or souvenir book as payment. He is asked to provide the decorations for this event or some flowers or plants for that occasion, being told that the publicity received will be worth the amount of the contribution, whatever its form may happen to be.

So long as such contributions are in money, the nurseryman is likely to distinguish carefully between those he favors and those that he does not. But when it comes to his services or merchandise, there seems much more difficulty in declining a request which the nurseryman even feels may be of a most unfair nature.

If the nurseryman will fix a definite price on the merchandise or the services involved in one of these requests, he will soon determine whether the publicity or advertising is worth the payment. Much that is contributed for advertising, however, is actually of so little worth as to be charity in fact. If one differentiates between requests for donations which are in reality worthwhile business expenses for advertising and those requests which, if granted at all, must be continued actually as charity, the nurseryman will have a sounder attitude in his approach to this problem. He will probably have, likewise, greater respect and esteem from his fellow citizens who have previously put him down as an easy mark.

The Mirror of the Trade

HOUSING DEMAND

Continuation again this year of the home-building boom at the rate of more than 1,000,000 annually has amazed even those in the construction field. Because of this stimulation to the demand for nursery stock, query is often heard as to how long it will last. A novel explanation of the protracted building boom has been advanced. For the past 12 months, it is asserted, the housing demand has been increased by the abandonment of structures purposefully built for a short life to house World War II veterans. The number of such home units demolished in the past year has been estimated at 300,000 to 400,000, and the process of removal is expected to continue at that rate into 1955. After those temporary structures have passed out of the picture and been replaced, the annual demand for homes will be reduced to 750,000 or near that number.

TREES IN FACTORY AREAS

Industrial sites for which nurserymen are called upon to provide landscape plantings are likely nowadays to be on the outskirts of a city or in a suburban area, as the program of urban decentralization proceeds. There the soil, atmosphere and general environment are such as to impose only moderate limitations on the list of plants to be used.

But the face-lifting of factories has become the trend to the extent that plantings, though restricted, are undertaken in some industrial areas well within city limits, where the air is less free from impurities. There the nurseryman needs to employ robust, durable trees and shrubs, for if the plants languish, not only is his customer dissatisfied, but proposals for other plantings are discouraged because of the apparent lack of success.

Evergreens, as is well known, should be avoided in such areas. The number of common deciduous shrubs that will survive is reasonably diversified. In selecting trees it is not necessary to go so far as to employ the ailanthus—which the Chinese call the tree of heaven, but which its disparagers in this country call by less pleasant names—nor yet the mulberry or the poplar, which survive in the face of much hardship. Considerably tolerant of

difficult urban conditions are the ginkgo, locust and sycamore, which afford a satisfactory diversity.

ASSOCIATION WORK

Whenever an individual nurseryman comes into contact with the workings of his state or national organization in regard to some problem with which he personally is concerned, he realizes how much is done for himself and his fellow members by officers who receive no payment for their time and effort and not always for their out-of-pocket expenses.

In any association, it is obvious, more members would be welcomed to share the load of the month to month activities that are but briefly reported, if at all, at the annual convention. The nurseryman who cannot spare time from his business to help in the work of his state association should surely be a member and cheerfully pay his dues in recompense.

HOUSE ORGANS

With his skill in design to aid him, the landscape nurseryman is often able to issue an individual house organ, which seems to be the best means of getting new customers in that field. The syndicated mailing pieces serve those who are too busy to prepare their own. But there is satisfaction to the owner to put out one of his own devising, such as Vick's Garden Guide, which is a 16-page affair issued three times a year by Albert F. W. Vick, Jr., of Vick's Wildgardens, Gladwyne, Pa., formerly at Narberth, Pa.

The wild flowers that are the firm's specialty supply interesting material, but there is more about trees, garden features, seasonal garden operations, the firm's displays at garden shows and related topics.

But the striking appearance of this little publication is one of its strongest points. Not only the cover, but most of the inside pages, also, carry illustrations or designs to reinforce the comparatively brief text. By the use of colored paper and a colored ink—sometimes two colors of ink in the winter issues—the issues are provided a variation and distinction in appearance that must impress the recipients.

Mr. Vick, who succeeded his late father in this business enterprise, is the current president of the Pennsylvania Nurserymen's Association.

Suggest Changes in Fair Trade Rules

Industry Representatives Speak Out at Chicago Conference

Important changes were recommended in the preliminary draft of fair trade practice rules, read at the convention of the American Association of Nurserymen last month, when they were reviewed at the first of three conferences for the nursery industry, held at the Hotel LaSalle, Chicago, August 11. The second session of the conference was set for September 14 at the Fairmount hotel, San Francisco, Calif., and the third for September 28 at the Statler hotel, New York city. Subsequently a draft of the proposed rules will be released, based on the recommendations received at these conferences and by mail, and then a public hearing will be scheduled, at which all interested or affected parties may present further criticisms and suggestions.

Most of the members of the National Mail Order Nurserymen's Association, who had concluded their annual convention the day before, attended the hearing. Local nurserymen, a few bulb dealers, some representatives of amateur garden organizations and others swelled the attendance to between 75 and 100 at the morning session, though it declined in the afternoon.

Present at the conference was Lowell Mason, senior in point of service of the federal trade commissioners, who had spoken at the A. A. N. convention at Boston in 1947. Presiding was Wilbur W. Sacra, attorney for the commission, who had presided at the Chicago conference when trade practice rules were formulated by gladiolus bulb growers in 1951.

Statement on Nursery Industry

At the outset, J. B. Baker, Jr., A. A. N. president, presented a short statement on the composition of the organization and of the nursery industry. Tom C. Kyle, newly elected president of the National Mail Order Nurserymen's Association, defined his organization as composed of large and small nurseries doing a catalog business and referred to its work in cooperation with the A. A. N. in drafting the fair trade practice rules.

R. P. White, A. A. N. executive secretary, presented for consideration the preliminary draft of fair trade practice rules and related how committees of the two national nurserymen's organizations had initiated the

procedure which had resulted in the present draft.

Amateur representatives favoring such rules, called on for statements by the chair, were Eugene Pfitzer, Highland Park, Ill., former president of the American Rose Society and of the National Men's Garden Club; L. B. Knouff, president of the Men's Garden Club of Chicago, and R. Milton Carleton, Chicago, speaking as a committee member of the American Horticultural Council and the Chicago Horticultural Society.

Then Clark Kidd, retiring president of the National Mail Order Nurserymen's Association, read the draft of preliminary fair trade practice rules, which are printed as initially presented at the conference, beginning on the following page. They were then considered, one rule at a time, upon reading. The FTC will review the statements of the industry and the public made at this and the two succeeding sessions of the conference, as well as written statements in regard to the subject, so that no final decisions were made at this time.

Group I and Group II Rules

Group I rules, stated Mr. Sacra, are those which are enforceable by law through the procedures of the FTC, while group II rules are ethical principles, not legal regulations.

Upon the reading of the first definition, as to nursery products, requests were presented by John C. Vaughan, Chicago, president of Vaughan's Seed Co., Chicago, and a member of the American Wholesale Bulb Dealers' Association, and by Gustav Springer, of the Holland Bulb Growers' Association, New York, that omission be made of "bulbs, corms and tubers," as they were not properly nursery stock, as were the other items mentioned, but subject to different specifications and handling. In reply, A. A. N. Secretary White said that since all mail-order nurserymen handled bulbs, it seemed that the items mentioned might be included in these rules, but if the bulb industry drew up its own fair trade practice rules soon, that cooperative effort would be welcome.

As an addition to the definitions, Secretary White proposed one of a nursery, which is substantially that used in the bylaws of the A. A. N., as follows: "The term 'nursery busi-

ness' refers to the production and/or distribution of plant materials, including trees, shrubs, vines and other plants having a persistent woody stem or stems, and all herbaceous annuals, biennials or perennials generally used for outdoor planting, by those concerns whose major activities are agricultural or horticultural."

Would Change Controversial Rule

The adoption of this definition, of course, would radically change the text of rule 7, which was the subject of much criticism when read at the A. A. N. convention last month. Presenting the definition of a nursery, Secretary White suggested the omission of paragraph 1 of rule 7, which apparently dates back to an FTC ruling in 1937. That was termed antiquated by John Kelly, Dansville, N. Y., and out of date by others, among them George Rose, Shenandoah, Ia., who referred to the large increase in sales outlets, as contrasted to producing firms, and the specialization to a greater degree year by year within the industry. The adoption of the proposed definition and the omission of paragraph 1 of rule 7 would allow a garden shop or salesyard handling woody plants to call itself a nursery.

General favor was indicated for rule 1 as read, as well as rule 2, which some thought should be strengthened. The latter could be done by changing the first sentence of the second paragraph of rule 2 by omitting the word "should" and replacing it with the word "must." To the books considered as authorities on plant names was added Rehder's "Manual of Cultivated Trees and Shrubs Hardy in North America."

In paragraph 3 of rule 2, it was proposed to rewrite section a as follows: "To represent seedlings as anything but juvenile plants grown from seeds and not transplanted."

In response to queries as to amateur gardeners' understanding of plant names, grades and specifications, Secretary White said that there is ready for the printing press a consumer's edition of American Standard for Nursery Stock, which will be distributed for public education.

In rule 4, Tom Kyle urged the omission of the second sentence because he thought the matter was covered by rule 2. Secretary White suggested the addition to the rule of

the following sentences: "On all plants advertised a true grade without misleading adjectives must be given. These grades must conform to American Standard for Nursery Stock."

In discussing rule 5, as to deception in regard to blooming, fruiting or growing ability of plants, amateur representatives said that what was not said sometimes was more important than what was said in a catalog description. Hardiness seemed a vital point. Secretary White was asked to tell of a map on plant zone hardiness which is being prepared with the financial support of the A. A. N.

In considering the subject of deceptive guarantees, rule 8, Tom Kyle said that the members of his organization had little trouble with their guarantees, in most cases refunding the cash purchase price upon complaint. R. M. Carleton asserted that an effusive guarantee was usually the sign of a gyp artist, as "the stronger the guarantee, the poorer the stock." This viewpoint was enforced by a statement by A. H. Johnston, of the Chicago better business bureau, who said that firms causing complaints too frequently resorted to replacements to avoid making refunds.

The remaining rules of group I were considered rapidly because these are largely standard material inserted by the FTC in fair trade practice agreements in other industries.

Rule 11, in regard to origin or source, caused some discussion, in particular the reference to Holland bulbs. The consensus was that the section should be reworded so that the country of origin would be required to be stated in the offering of any imported material.

Comments on Group II Rules

When consideration of group II rules was reached, Secretary White stated that rule A and rule B would not be required because the substance of these rules had been written into various rules of group I. As to rule C, covering the minimum standards of packing nursery stock, he said this was a verbatim copy of the postal rules and regulations covering the shipment of such stock through the mails. Hence he proposed that rule C be rewritten as follows: "Stock must be packed to the standards of the type of transportation service used."

Rule D of group II is merely a statement of the A. A. N. code of ethics and probably not technically a part of FTC regulations, it was explained.

At the conclusion of the session, Mr. Sacra explained that after completing the other two sessions of the conference, at San Francisco and New York, and a hearing on the rules to be promulgated by FTC and the industry, the industry would appoint a committee to act in liaison with the FTC, following the promulgation of the rules adopted. Ninety per cent of the complaints under such fair trade practice rules, he

said, are usually found to be caused by unintentional errors on the part of the sellers or the result of misunderstandings on the part of the buyers, and such cases easily lend themselves to correction. But when fraud or conspiracy is evident from the investigation of a complaint, legal action results. In conclusion, he stated, the rules are subject to change in the future, if conditions or circumstances warrant.

Fair Trade Practice Rules

Preliminary Rules Suggested by Fair Trade Practice Rules Committee of American Association of Nurserymen

GROUP I RULES

(May 28, 1954, draft)

Definitions

Industry Products. As used in these rules, the term "industry products" includes all types of trees, shrubs, vines, ornamentals, herbaceous annuals, biennials and perennials, bulbs, corms and tubers; they may be propagated sexually or asexually, are grown either in a commercial nursery or collected from the wild state, and are offered for sale to the general public. These products are customarily used for outdoor planting, and are not intended to include florists' or greenhouse plants for inside culture or use or annual vegetable plants; likewise, gladiolus bulbs are excluded inasmuch as they are covered by trade practice rules promulgated January 17, 1952.

Industry Members. Any person, partnership, firm or corporation engaged in the sale, offering for sale or distribution in commerce of "industry products," as defined above.

Lining-out Stock. Includes all plant material coming from propagating houses, beds or frames and young material such as seedlings, rooted or unrooted cuttings, grafts or layers, of suitable size to plant in nursery rows.

Rule 1. Misrepresentation (General)

I. It is an unfair trade practice to sell, offer for sale or distribute an industry product by any method or under any circumstance or condition which has the capacity and tendency or effect of deceiving purchasers or prospective purchasers as to size, grade, kind, age, condition, vigor, hardiness, rate of growth or time required before flowering or fruiting, price, or in any other material respect.

II. The inhibitions of this rule shall apply to every type of advertisement or method of representation, whether in newspaper, periodical, sales catalog, by radio or television, sales representatives or otherwise.

III. Among deceptive practices inhibited by the foregoing are:

a. A representation or inference that seedlings are trees, or that seedlings have been propagated by grafting or bud selection methods, when such is not the case.

b. A representation that industry products are free from disease, will grow anywhere without the use of fertilizer, or will survive and produce without special care, when such is not the case.

c. A representation through description or depiction, that plants will bloom the year round, or will bear an extraordinary number of blooms of unusual size or quality, when such is not true in fact.

d. A representation that the industry product is a rare or new variety, when in fact it is a standard variety to which the vendor has given a new name.

e. A representation that the industry product cannot be purchased through ordinary retail outlets, or that there are limited stocks available, when such is not the case.

f. A representation that industry products offered for sale will be delivered in time for proper seasonal planting, when the vendor is aware of factors which make such delivery improbable or impossible.

g. A representation, either directly or by failure to make nondeceptive disclosure, that nursery products will flower when in fact they have been used for commercial production of cut flowers and are practically exhausted insofar as further production of flowers is concerned (e.g., the sale of "bench" rosebushes—greenhouse-grown rosebushes over 2 years old).

Rule 2. Misrepresentation of Plant Names

I. In the sale, offering for sale, or distribution of industry products it is an unfair

trade practice to misrepresent, directly or indirectly, the origin, family, genus, species, age, culture or true name of any plant; or to withhold necessary information and reveal only partial information, or in any way to describe the items, class or classification of an industry product in a manner which would have the tendency or capacity and effect of deceiving or misleading purchasers or prospective purchasers.

II. When other than the generally accepted common name is used to designate a plant, the correct botanical name should also be specified. In administering this section, a recognized encyclopedia of plant names will be used as the guide for plant names, definitions and classifications. (E.g., Standardized Plant Names, 2nd edition, American Joint Committee on Horticultural Nomenclature, 1942; Check List of Native and Naturalized Trees of the United States, U. S. D. A. agricultural handbook 41, 1953; Bailey's Encyclopedia of Horticulture; Hortus; Native Woody Plants of the United States, Van Dersal, U. S. D. A. misc. publ. 303, 1938; Rehder's Manual of Cultivated Trees and Shrubs Hardy in North America, 2nd edition, 1940.)

III. Under this rule, it is an unfair trade practice

a. to represent seedlings as trees or transplants; or

b. to represent bulblets as bulbs; or

c. to represent, by description, depiction or otherwise that a plant is of a size other than actually is the fact. Lining-out grades must be so specified. The grades established by American Standard for Nursery Stock will control.

Rule 3. Substitution of Products

The practice of shipping or delivering products which do not conform to samples submitted, to specifications upon which the sale is consummated, or to representations made prior to securing the order, without the consent of the purchasers to such substitutions and with the tendency, capacity or effect of misleading or deceiving purchasers, prospective purchasers or the consuming public, is an unfair trade practice.

Rule 4. Deception as to Size

It is an unfair trade practice to describe or depict nursery products under any circumstance or condition having the capacity and tendency or effect of deceiving purchasers or prospective purchasers with respect to size, grade, species, maturity or growth ability. Under this rule, it is an unfair trade practice to describe an evergreen or deciduous seedling as an evergreen or deciduous tree or to misrepresent by means of depiction the relative size or productive characteristics of any nursery product.

(Note: The industry strongly recommends that all advertising copy used in promoting and soliciting the sale of nursery products incorporate nomenclature as set forth in Standardized Plant Names, 2nd edition, American Joint Committee on Horticultural Nomenclature, 1942; or other recognized standard listing of plant names such as those mentioned in rule 2.)

Rule 5. Deception as to Blooming, Fruiting or Growing Ability

In the sale, offering for sale or distribution of nursery products, it is an unfair trade practice for any industry member to misrepresent, through description, depiction, or otherwise

a. the ability of any nursery product to bloom, flower or fruit within a specified period of time, or

b. the ability of any nursery product to produce crops within a specified period of time, or to give multiple crops each year, or to produce crops in unfavorable climatic regions, or

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Timely Topics Attract Many to Mail-Order Meet

Polyethylene packaging materials and fair trade practice rules, two subjects which played a prominent part at the recent convention of the American Association of Nurserymen, also served to attract a large attendance to the annual meeting of the National Mail Order Nurserymen's Association, held August 9 and 10 at the Hotel La Salle, Chicago. The first of three conferences between the industry and the federal trade commission regarding the trade practice rules was held the day following the close of the mail-order meeting, and many of the mail-order nurserymen remained for the conference. A report of this conference appears elsewhere in this issue. Mailing lists, parcel post rates and a reorganization of the association's executive setup also received attention at the mail-order meeting.

Tom Kyle, Bohlender Nurseries, Tipp City, O., was elected president of the association, advancing from the position of vice-president. John Kelly, Kelly Bros. Nurseries, Dansville, N. Y., was elected vice-president, and Robert J. Bauge, Earl E. May Seed Co., Shenandoah, Ia., was re-elected secretary-treasurer.

New Executive Organization

Under the new executive pattern of the association, the offices of the association consist of a president, vice-president, secretary-treasurer and a board of directors. As newly constituted, the board of directors consists of the three officers, plus the immediate past president and

the first and second regional vice-presidents representing the eastern, central, southern and western sections. Each regional vice-president will serve a 2-year term, the first year as second vice-president of his region and the second year as first vice-president. The major change brought about is the elimination of a separate 6-man "board of directors" which was previously elected in addition to the regional vice-presidents. The elimination of this separate board, plus the reduction in the number of regions from five to four, will result in a smaller and more flexible group of executives.

Elected as regional vice-presidents under the new setup were the following:

Eastern region: First vice-president, Harold Timmons, Buntings' Nurseries, Selbyville, Del.; second vice-president, Ken Tack, Jackson & Perkins Co., Newark, N. Y.

Central region: First vice-president, Jim Scarff, Scarff's Nursery, New Carlisle, O.; second vice-president, Glen Davis, R. M. Kellogg Co., Three Rivers, Mich.

Southern region: First vice-president, Jack Hanley, Arp Nursery Co., Tyler, Tex.; second vice-president, John Fraser III, Huntsville Wholesale Nurseries, Huntsville, Ala.

Western region: First vice-president, J. A. Armstrong, Jr., Armstrong Nurseries, Ontario, Calif.; second vice-president, Joseph Weston, Neosho Nurseries Co., Neosho, Mo.

Dr. Mahlstedt Speaks

The chief exponent of polyethylene packaging materials at this convention, as at the meeting of the A.A.N., was Dr. John P. Mahlstedt, of Iowa State College. Dr. Mahlstedt presented substantially the same information which he had offered at the A.A.N. meeting covering experiments undertaken at Iowa State College. He reiterated the economic advantages of polyethylene packaging: The cost of the polyethylene packaging materials is less than the cost of conventional wrappings, and the reduction in the weight of packages accomplished by eliminating moistening agents results in lower transportation costs. He also referred to his experiments to show that the condition of plant



Tom Kyle
[Elected President of N.M.O.N.A.]

materials after shipment in this material was in most instances better than that noted for plants shipped in conventional wrappings.

An enlightening adjunct to Dr. Mahlstedt's address at the mail-order meeting was a panel discussion on polyethylene packaging, moderated by George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia. Other members of the panel were Bill Collins, Henry Field Seed & Nursery Co.; Richard Fillmore, Lake's Shenandoah Nurseries, Shenandoah, Ia.; Don McConnell, McConnell Nursery Co., Port Burwell, Ontario, Canada; Carl Lumry, Mount Arbor Nurseries, Shenandoah, Ia., and Ted Sjulín, Interstate Nurseries, Hamburg, Ia.

Mr. Rose opened this discussion by citing the savings in postage which his firm had accomplished through the use of polyethylene. He stated that the average parcel post cost per package shipped from Henry Field Seed & Nursery Co. during the spring of 1953 was 25.54 cents. The average parcel post cost per package shipped in the spring of 1954 was 27.95 cents. Although the 1954 figures represent a 9.4 per cent increase over those of 1953, this relatively small rate of increase was achieved in spite of a 36 per cent increase in parcel post rates. The obvious answer is that the average weight of the packages was reduced in 1954, with the use of polyethylene.

Mr. Rose also spoke of polyethylene in terms of customer satisfaction, stating that complaints due to deterioration of plant material during shipment had been materially reduced.

Dr. Fillmore offered a suggested method of packaging evergreens for shipment using polyethylene ma-



John Kelly
[Elected Vice-president of N.M.O.N.A.]

terials. This type of plant, said Dr. Fillmore, should be treated with an antitranspirant before packaging. It is then important to wrap the roots and the tops of the plants separately, as the two require different moisture conditions. On the one hand the roots must be kept moist in order to preserve the beneficial microorganisms that attach themselves to the roots, and on the other hand the tops must be kept dry to prevent the development of mold. Dr. Fillmore stated that a handful of sphagnum moss was sufficient to keep the roots moist on five or six 15 to 18-inch evergreens.

The matter of labeling plants packaged in polyethylene was discussed, with Mr. McConnell and Mr. Sjulín stating that the simplest method of labeling was to drop a tag into the bag with the plant. At this point, Dr. Mahlstede warned that labels may be a focal point for mold development and suggested attaching the label to the outside of the package whenever possible.

In answer to a question, Mr. Lumry approved the use of polyethylene-kraft paper on rose roots with plain kraft on the stems as long as the wrappings are tightly closed. He mentioned that this method does, however, involve two separate wrapping operations. Mr. Lumry also noted that his firm waxes all roses regardless of how they are wrapped for shipment.

The problem of breakage of roots during shipment was discussed, with sphagnum moss and shingle tow being suggested as cushions for stiff and brittle roots.

In response to another question, Mr. Collins stated that the shape and the size of a plant should determine whether polyethylene sacks or sheets of polyethylene paper should be used in wrapping. The speaker's experience was that sacks are more easily handled and should be used whenever possible. Mr. Collins also observed that as the season advances from spring into summer, plants generate more heat; the more heat generated the more loosely the plants must be wrapped.

Report on Washington Trends

The proposed fair trade practice rules for the nursery industry were mentioned by Dr. Richard P. White, executive secretary of the American Association of Nurserymen, who spoke on Washington developments. Dr. White called attention to the conference to be held the day following the close of the mail-order meeting. Two additional conferences are

planned for September, one at New York and one at San Francisco. Dr. White said that the commission, economy-minded under the present administration, was anxious to bring about the final set of trade practice rules with a minimum expenditure of time and money.

Dr. White reported that the plant patent legislation which is designed to restore the original intent of the plant patent law had passed the House of Representatives and was likely to pass the Senate in short order. (The Senate passed the bill August 18, and it was awaiting President Eisenhower's signature as this issue went to press).

The trip leasing bill was reported by Dr. White to be bottled up in a Congressional committee. This legislation, which will permit more flexibility in the leasing of motor trucks, is supported by all agricultural groups, with its principal opposition coming from the railroads.

In the field of social security, coverage is expected shortly to be extended to agricultural employees. The house version of the social security extension bill included cov-

erage of self-employed agriculturists, but the Senate version eliminates this provision. A House-Senate conference committee will have to reconcile the bills' differences.

The secretary reported that there is nothing the nursery industry can do at the present time regarding the Stokes tax case decision, as a result of which nurserymen may be required to compute their income tax on an inventory rather than a cash basis. The inventory method is considered less desirable inasmuch as it means that the cost of plant materials bought for resale cannot be deducted from income tax until the plants are sold. Since the case will not be appealed there is no possibility of court intervention on the part of the A.A.N. or other interested groups. (A detailed account of this case appears in the July 15 and August 1 issues of the American Nurseryman.)

Discusses Postal Rates

William B. Henderson, executive vice-president of the recently-formed Parcel Post Association, addressed the mail-order men on one of their

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Convict Owen on Fraud Charge

James W. Owen, operator of what is described as the nation's biggest mail-order nursery business, was found guilty on 17 counts of mail fraud on August 6, in United States District Court, Springfield, Ill., according to newspaper reports released across the nation by United Press.

Federal Judge Charles G. Briggie said, "I can find no escape from the conclusion" that the millionaire Bloomington, Ill., businessman had operated his business "to deceive the public."

The judge said evidence showed much of the advertising Owen ran in newspapers across the country was intended for the "unholy purpose" of fraud and "the public received unmerciful treatment" from him.

Owen faces a fine of \$1,000 or five years in prison, or both, on each of the 17 counts. Judge Briggie said he would fix sentence and hear arguments on a defense motion for probation at a later date.

Assistant United States Attorney Marks P. Alexander told Judge Briggie that the prosecution feels "an example should be made" of Owen but was not recommending any specific penalty.

Owen was indicted in July, 1953,

on charges he bilked hundreds of customers through misleading advertisements about nursery stock and stalled them off when they tried to get refunds.

Owen's trial in federal district court, without a jury, wound up in July after about 200 witnesses testified over a period of five weeks. Among the witnesses were nursery inspection officials from a number of states, who testified as to the numerous complaints. R. P. White, A.A.N. executive secretary, Washington, D. C.; Les Sjulín, of Inter-State Nurseries, Hamburg, Ia., and John Kelly, Kelly Bros. Nurseries, Dansville, N. Y., also appeared on the witness stand.

Owen operated under three names — the Owen Nursery, the Marie Kruse Nursery and the Bob Richards Nursery.

United States District Attorney John B. Stoddard, Jr., said that in 1952 alone Owen grossed \$3,500,000 and bought \$1,900,000 worth of ads.

The prosecution also charged that Owen took few precautions to protect plants he shipped, that he tried to "wear out customers who made complaints" and that he sought to "soft-soap" better business bureaus and others who forwarded complaints to him.

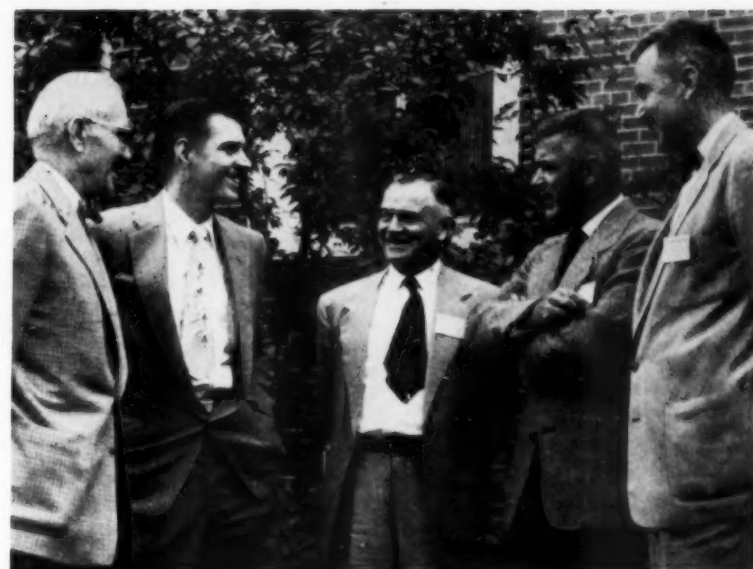
Industry Progress Discussed at Michigan Conference

By Harold Davidson

New developments in the nursery and landscape industry were discussed at the eighth annual nursery and landscape conference, held August 10 and 11 at Michigan State College, East Lansing, Mich. More than 250 nurserymen and landscape men from Michigan and surrounding states attended the event.

The conferees were welcomed to Michigan State College by Dr. H. B. Tukey, head of the department of horticulture. Dr. Tukey pointed out that it was proper and fitting that the Spartan campus should be the site of this annual event as the campus is a living monument to the nursery and landscape people and that everywhere one walks on the campus, he is reminded of many of the great men who studied and taught here in the field of horticulture. To mention but a few, he named Beal, Garfield, Bailey and Hedrick. Dr. Tukey said that he was especially pleased to see the splendid cooperation of the Michigan Association of Nurserymen, the Michigan Landscape Conference and the college in sponsoring the program, and he observed, "It is through such cooperation that progress is made."

"Salesmanship" and "Plant America" were discussed jointly by the next speaker of the morning program, Walter Palmer, residential sales manager, Michigan Consolidated Gas Co. Mr. Palmer stated that the salesman is the most important cog in the wheel of manage-



Among the participants in the Michigan Nursery and Landscape Management Conference were, left to right, Dr. Roy Marshall, assistant director of the Michigan agricultural experiment station; Dr. John Mahlstedt, Iowa State College; Ernest Durrant, nurseryman, of Grand Rapids, Mich.; Dr. Donald Watson, Michigan State College, and John J. B. Light, Light's Tree Co., Richland, Mich., president of the Michigan Association of Nurserymen.

ment in that a producer cannot produce, a landscape man cannot landscape and a nurseryman cannot grow unless the salesman sells. He said that we are now in a buyer's market and that the salesman must be trained in the new look; that is, the salesman must know his product and he must be able to show the customer how he can spend his money to greatest advantage.

Mr. Palmer indicated that one successful sales aid is the use of slogans and that the nurserymen of the country are fortunate in the choice of their slogan "Plant America," as this particular slogan has both historical and natural acceptance and is thus a dynamic slogan upon which to capitalize. The nurserymen have won endorsement of

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Jerry Geerligs, Grand Rapids, Mich., was presented the short course award for scholarship, citizenship and leadership in the nursery and landscape management training course by Dr. H. B. Tukey, head of the department of horticulture, Michigan State College. Jerry is seen here (right) being congratulated by his coordinator, Prof. Harold Davidson.



A refrigerated storage room is the site of this dinner, which took place during the summer meeting of the New Jersey Association of Nurserymen. Shown are, left to right, Herbert Voorhees, president of the New Jersey Farm Bureau; William Allen, secretary of the New Jersey department of agriculture; William Flemer, Jr., and William Flemer III, Princeton Nurseries, Princeton, N. J., and Russell Bettes, Piedmont Landscape Co., Princeton, president of the N. J. A. N. Princeton Nurseries was host for the meeting and provided visiting nurserymen with a tour of their 1,400 acres.

New Jersey Nursery Tour

By Raymond P. Korbobo

A joyful group of approximately 250 nurserymen and guests attended the summer meeting of the New Jersey Association of Nurserymen, August 4, at the Princeton Nurseries, Princeton, N. J. The good humor was attributed to the fact that the long summer drought was eased just the day before by an inch and a half of rain in the Princeton area, with at least some rain in other parts of the state.

A 4-piece orchestra, clam bar and light refreshments kept everyone in a holiday spirit from early morning until 2 o'clock, at which time the members and more than 25 honored guests from the state highway department, department of agriculture and Rutgers University enjoyed a perfect filet mignon.

The official program was highlighted by a series of bus trips through the 1,400 acres of Princeton Nurseries, where 400 acres have been converted from the straight row system to the contour. "There is not a drop of wasted water on these 400 acres," said William Flemer III, "and it is proving to be a wise move."

With the aid of irrigation, the drought has not had any serious effect on the nursery. This was especially evident in the blocks of smooth honey locust, which is the natural replacement for the fast disappearing American elm in the east and other

places where the Dutch elm disease has caused many deaths. Not only does this tree have a pleasing branching habit, but it is easy on lawns that must grow under it. This is because of the deep root system, the fine foliage that allows rain through and also the leaves, which do not injure the lawn when they drop in the fall.

Exhibit Flowering Crab Apple Trees

An exhibit of flowering crab apple trees was also part of the day's program. Among the 17 better species and varieties included were such staunch favorites as Sargent's, Hopa and Bechtel's. In addition were the two new varieties developed at Princeton. These will be known as Charlotte and Prince George. Both are double pink varieties, and Charlotte, a variety of *Malus coronarius*, is one of the last to bloom.

Bert Flemer, F & F Nurseries, Springfield, N. J., was in charge of a fine equipment display and demonstration, which were held all afternoon. Dr. Clyde C. Hamilton, of the department of entomology at Rutgers University, demonstrated to the members and guests the many advantages of a mist blower for use in controlling insects and diseases in the nursery. Princeton Nurseries was one of the first firms to purchase a mist blower when they came on the market just after World War II.

New Englanders Hold Clambake

By Erwin W. Whitham

More than 400 nurserymen and guests, members of the New England Nurserymen's Association and the state associations of Connecticut, Rhode Island and Massachusetts, met August 4 at Boulevard Nurseries, Newport, R. I., for an old-fashioned clambake. Hosts for the event were Esau Kempenaar, Boulevard Nurseries; V. J. Vanicck, Rhode Island Nurseries, and Case Hoogendoorn, Hoogendoorn Nurseries, all of Newport.

The event was intended primarily as a day of relaxation, but the executive committee of the New England Nurserymen's Association met briefly and accepted 11 nurseries as new members of the association. Also, most nurserymen present at the clambake took advantage of their proximity to the excellent nurseries in the Newport vicinity, and there was a steady stream of cars leaving the meeting grounds to tour the various nurseries.

Shuffleboard courts, horseshoes and a variety of games provided sport and amusement throughout the day. An excellent lunch of Kempenaar's special clam chowder was served at noon.

Among the highlights of the afternoon was a tour of Newport harbor. About 150 persons, aboard a yacht and four cruisers, enjoyed close-up views of many of the navy installations in the harbor and of the harborside of estates that overlook the bay.

The clambake proper, held at 5 o'clock, started with a quart of steamed clams served to everybody with a container of melted butter to dip them in. Chicken, steamed onions, potatoes, sausage, fresh corn, lobster halves and brown bread followed, served with relishes and preserves and topped off with sliced watermelon and coffee.

Good fellowship, fun and abundant opportunities to exchange ideas and experiences made the day an outstanding one. Members and guests were present from every New England state, as well as from New York, New Jersey and Pennsylvania.

R. H. HARDIN has joined J. A. Harper as a partner in the Twitty Nursery, Texarkana, Tex. He will replace Lucien B. King, who died suddenly of an attack of angina last October.



Members of the executive committee of the Indiana Association of Nurserymen at the association's summer meeting. Front row, left to right, Argel Pion, Fort Wayne; Harold Bohling, Munster; Troy Bunch, Terre Haute. Back row, left to right, Earl Moldenhauer, Huntington; Henry Schnitzius, New Augusta; Robert Simpson, Vincennes. Three members of the board were not present for the photograph.

Study Bluegrass at Indiana Meeting

By Robert C. Simpson

Merion bluegrass was the main topic of interest at the summer meeting of the Indiana Association of Nurserymen, held August 5 and 6, at Bohling's Nursery, Munster, Ind. A 2-acre plot of land at the nursery, which had been given minimum seeding with Merion bluegrass in the fall of 1951, was the object of the attention of more than 100 nurserymen and their wives attending the meeting. The spring after seeding it was noted that only a few ounces of seeds per acre had survived the winter, and conditions prevented reseeding. By late spring scattered clumps of grass were apparent, and by early summer they had begun to merge. Late that summer a thick sod had been formed, and this was cut and sold. The following spring the bluegrass sprouted from the roots remaining in the ground, and by summer it was possible to remove and sell a complete second cutting. The grass re-established itself again as a thick sod before winter.

View Third Crop

At the time of this meeting the third consecutive crop of sod was being removed. In areas where sod had been removed for only five weeks a new stand was appearing among the numerous small weeds. Harold Bohling assured visitors that all would again be a dense fog, free of

weeds, by winter. Examination had revealed grass roots to a depth of two feet, and renewal had come from these roots. A thorough program of irrigation, fertilization and mowing had supplemented a soil ideal for this purpose.

The evening meeting was preceded by a fried chicken dinner. Delegates Troy Bunch and Henry Schnitzius reported on the convention of the American Association of Nurserymen. They reported that two new procedures drawing much attention are the use of polyethylene for the shipment of plants without soil and mist propagation. For the 1956 A. A. N. meeting at Los Angeles, a special car from Chicago will be scheduled. It was explained that the national average is \$8,000 to \$9,000 gross business per permanent full-time man employed. This is a yardstick for checking individual operations for average efficiency. Indiana was represented by 31 persons attending the A. A. N. convention.

Troy Bunch pointed out the values of an active trade association and urged that more wives be brought to the summer meetings, as they help create a closely knit association.

Prof. N. K. Ellis, head, department of horticulture, Purdue University, Lafayette, distributed a newly published conference notebook,

entitled "Life Depends on Horticulture." The booklet is for distribution at high school and youth conferences to interest potential Purdue students in taking horticultural courses. Publication of the booklet was financed by the Greater Indiana Horticultural Council comprised of various state horticultural organizations.

Paul Ulman, assistant state entomologist, reported facts on diseases and insects, as revealed by a recent survey by state inspectors. No white-fringed beetle has been found, he stated. The European chafer may have been introduced, but none has been found to date. It is now present in West Virginia. Japanese beetle infestations in several places in the state are reduced from a year ago. The gypsy moth may be distributed by airplane and may not be far away. A new mealy bug was found in 1953 on junipers and has been reported in five states from Iowa south. Mr. Ulman urged the nurserymen to be on the lookout and to report any of these new pests to his office.

Color Movie on Soil Moisture

A color movie by Alsoa showed soil moisture to be the one factor in nature most often limiting proper plant growth from year to year.

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Alton Wilke (right foreground, with ruler under arm) is shown as he gave a demonstration lecture at a roadside south of Madison, Wis., to county and township highway officials on how to develop roadsides to preserve beauty and promote safety. Demonstration was a project of the Madison Landscape Nurserymen's Association.

Active Nurserymen's Group Sponsors Productive Projects

The Madison Landscape Nurserymen's Association is a recently organized group whose early achievements demonstrate effective realization of a local trade organization's potential for building good will, securing publicity and awakening a community to the need for civic improvements.

The Madison, Wis., group's enthusiastic approach to whatever may benefit the local landscape nurserymen has resulted in an ambitious threefold program. First, a series of TV shows on landscape gardening was inaugurated to enable nurserymen to reach the public and show graphically the improvements wrought by well-designed plantings. Second, an understanding was reached among members of the association as to a standardized guarantee. Third, attention was given to the matter of improved roadside plantings on highway approaches to the city.

TV Show Is Early Project

The Madison group was formed the past winter, and, a few weeks after its formation, its members set about to produce a series of 10 half-hour TV shows. Arrangements were made for a large seed concern to pay for the time on Madison's station WKOW-TV; additional arrangements provided that the nurserymen

would landscape the grounds of the television station as a part of the bargain for the shows. The landscaping of the studio served as the basic theme of the program series. It should be noted that the cooperating nurserymen knew virtually nothing about television techniques before starting the series.

A scale model of the studio and grounds was made and was used on the opening program to enable viewers to visualize the projected landscape job as its various aspects were explained. There followed, on subsequent programs, discussions and demonstrations of such subjects as seeding, sodding, lawn repairing techniques, identification of evergreens, use of flowering shrubs, pruning, construction of a patio, planting techniques and use of perennials and roses. A panel show, with questions from the audience, was one of the highlights of the series.

Telecasts were held at the studio on Sunday afternoon, and association members met each Thursday to plan the show and anticipate, insofar as possible, problems that might arise. It was planned that some telecasts would be produced inside the studio and that some would be telecast out of doors. Faced with the cold and sometimes stormy Wisconsin spring, the group decided to have an alternative inside program for each of the

outside programs scheduled. The soundness of this idea was proved during the following weeks, as each inside program that was planned had to be used.

Reactions to the television series proved favorable, and many formerly unheralded, though dependable, nurserymen received a wealth of new contacts from it and made many new friends. The series appeared to awaken deeper appreciation of what a trained nurseryman can do to aid homeowners with their landscaping problems. So successful were the shows, in fact, that a second series is planned which is tentatively scheduled to begin sometime this fall.

Solves Guarantee Problem

A thorny problem familiar to nurserymen everywhere concerns replacement policies for materials. The Madison group has hammered out a stock replacement policy acceptable to all members. It has been agreed that stock purchased in the spring will be guaranteed until August 1 of the same year provided that (1) payment is received when due and (2) stock is given reasonable care. Deciduous shrubs will carry a 100 per cent guarantee, and evergreens and trees will carry a 50 per cent guarantee. Stock purchased in the fall will be guaranteed until May 1.

An example of what can happen when mere criticism is supplanted by positive action is found in the group's roadside beautification demonstration and "Plant a Green Mile" projects. At one of their meetings, the landscape nurserymen adopted a resolution criticizing the destructive habits of highway crew members who cut and slash trees along roadsides. One member of the nurserymen's group asked a newspaperman he knew how the group might place this item in the paper.

"Why don't you turn this thing around?" the newspaperman challenged. "Give a positive demonstration to help the highway crews instead of just knocking them. Maybe the highway workers don't know any better when they clean everything off the roadsides right up to the fence line."

The nurserymen accepted the challenge, and soon a demonstration was arranged. Present at the demonstration were not only the county highway commissioner and his top foremen, but also township officials, men in charge of safety and line clearance for an electric utility company and the wildlife biologist of the state conservation department. The newspaper reporter and a cameraman were

[Continued on page 71]

Pointers on Propagation

New Thoughts on Propagating Rhododendrons

By James S. Wells

Although I am now far removed from good rhododendron country and have not been engaged in the growing of rhododendrons since I came to the midwest, I find myself almost inevitably thinking about them at this time of the year, because, of course, now is the time that cuttings should be taken. It is one of my main regrets that while living and working in an area with a highly alkaline soil, it is almost impossible

for me to continue the work which proved to be of great interest during the past five years.

The main outline of the results which were obtained from this five years' work has already been discussed in the American Nurseryman, but upon looking through my records and examining some of the photographs which I took in the past two years in New Jersey, I realize that one or two further refinements

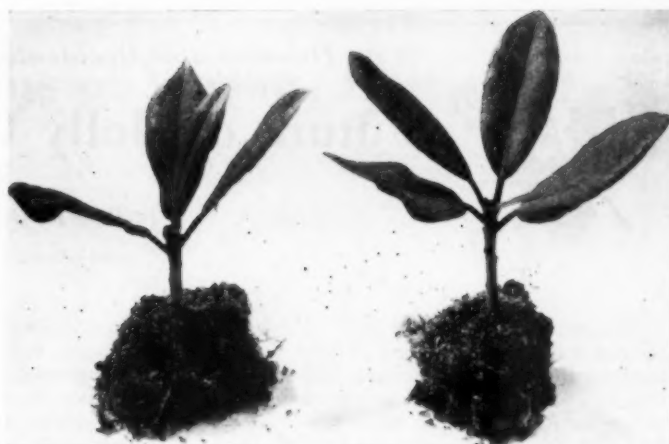
in our methods of production were made which I had not discussed and which might prove to be of value to growers more fortunately situated than I.

If one were to line up all the various factors which are important in the rooting of a hybrid rhododendron cutting, such as type of cutting, wounding, hormone treatment, medium, humidification, etc., and if all were under reasonable control, one or two variable factors would remain upon which one must exercise judgment. Timing seems to be of vital importance in the production of good stands of rhododendron cuttings, and it is one of the most difficult aspects of this work upon which to obtain information.

In this vast country, growing conditions vary widely, and the condition of the plants upon which the grower has to work can, therefore, vary equally as widely, so that the only really valuable information is that which is obtained from work at home. The best that can be obtained is an indication, and, therefore, I preface my remarks on timing by saying that the results which I am about to record apply only to the particular varieties named and under the conditions appertaining at the time in southern New Jersey. They can, perhaps, serve as some indication of what may be about the best time to take cuttings of various varieties of rhododendrons, but they cannot be considered as specific information upon which growers in different parts of the country can expect to base their plans.

The rhododendron cutting season rightfully starts in southern New Jersey about the third week in July. This is immediately qualified by a number of conditions which may ef-

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Cuttings of Rhododendron America taken in late August, treated with IBA 2 per cent and photographed in November. Note that the terminal buds have been removed by this time to induce development of side buds.

DATA ON ROOTING OF RHODODENDRONS FROM CUTTINGS

Variety	Approximate Best Time To Take Cuttings	Best Hormone Treatment	Best Percentage Of Well-rooted Cuttings
America	Mid-Aug.	Merck's No. 3	80%
America	Late Aug. to early Sept.	IBA 2%	64%
Album Elegans	Mid-July	Merck's No. 3	70%
Boule de Neige	Late July	IBA 2%	46%
Catawbiense Album	Mid-Nov.	Merck's No. 3	86%
Catawbiense Boursault	Mid-Aug. to mid-Sept.	IBA 2%	100%
Catawbiense Grandiflorum	Mid-Oct. to Mid-Nov.	Merck's No. 3	97%
Charles Bagley	Last week in Sept.	IBA 2%	65%
Chionoides	Late Sept. to early Oct.	Merck's No. 3	84%
Caractacus	August	IBA 2% or Merck's No. 3	74%
Cunningham White	Mid-July	Merck's No. 3	100%
Cynthia	Nov. 1 to 15	IBA 2%	86%
Dr. Dresselhuys	Mid-Aug. to early Sept.	2,4,5-TP 1%	90%
Dr. Torrey	Nov. 1	IBA 2%	60%
Dr. Torrey	Mid-Sept.	IBA 2%	62%
English Roseum	August	IBA 2%	76%
Edward S. Rand	Mid-Sept. to Mid-Oct.	2,4,5-TP 1%	100%
Everestianum	Mid-Sept.	IBA 3%	22%
Fastuosum Flore Pleno	Mid-Oct. to Nov.	IBA 2%	96%
Ignatius Sargent	Mid-Sept.	IBA 2%	74%
Kate Waterer	Mid-Oct.	IBA 4%	97%
John Walter	Nov.	IBA 2%	93%
Lee's Dark Purple	July 7-14	Merck's No. 3	64%
Mme. Carvalho	Mid-Sept.	IBA 2%	62%
Mme. Masson	Mid-Sept.	IBA 2%	85%
Parson's Gloriosum	Early Sept.	IBA 2%	90%
Purpureum Elegans	Early July	Merck's No. 3 or IBA 2%	70%
Roseum Elegans	Mid-Aug. to late Nov.	Merck's No. 3 early or IBA 2% late	80-95%
Sappho	Mid-Sept.	IBA 2%	60%



With Oriental and Occidental Varieties

Future of Holly Culture in America

Part I • By Shiu-ying Hu

Arnold Arboretum, Jamaica Plain, Mass.

The genus *Ilex* contains some of the oldest species of trees and shrubs cultivated by man. In the west, the Greeks cultivated *Ilex aquifolium* before the Roman Empire was established; in the east, the Chinese have used the red berries of *Ilex chinensis* for new year decorations since time immemorial.

It appears that people of different cultural patterns select the wild forms in accordance with their tastes. In European and American gardens, the most popular species are those with spiny leaves, while in the Orient, as in China and Japan, all the appreciated species have smooth leaves. This can be well illustrated by an example. *Ilex cornuta*, a native of China, is a favorite of many American holly enthusiasts. Its compact and shapely growth, its glossy dark green foliage and its long-stalked large bright red berries produced in profusion make it the favorite holly of many growers. But in China although it is the commonest ligneous plant among the secondary growth of the semidenuded hills all the way from Nanking up the Yangtze river to central China, it is hardly ever found in Chinese gardens. Moreover, the branchlets are never collected for festival decorations as are those of the smooth-leaved *Ilex chinensis*.

Popular Conception of Holly

To the European and American people, who associate holly as Christmas decorations, a holly means a plant with spiny leaves and red berries and nothing else. The nonspiny-leaved species of *Ilex* are not even named as hollies. They are black alder, winterberry, possum haw, inkberry, etc. To the Chinese and Japanese people, the holly family, *Aquifoliaceae*, is known as *tung-ching-kuo* (the wintergreen family). The most popular Chinese species, *Ilex chinensis*, is called *wan-shou-hung* (the everlasting red). Japan has no native spiny holly species. The Japanese favorites, *Ilex integra*, *Ilex latifolia* and *Ilex crenata*, have either entire leaves or inconspicuously crenate ones. China has the following species of spiny-leaved hollies: *Ilex*

cornuta, *Ilex diphyrena*, *Ilex bitoritensis*, *Ilex ciliospinosa*, *Ilex georgei*, *Ilex pernyi*, *Ilex centrochinensis*, *Ilex wenchowensis* and *Ilex miguensis*, but none of them is cultivated by the Chinese, although in some missionaries' yards one may occasionally find *Ilex cornuta*.

In the selection of their favorite hollies as between the Oriental and the Occidental people, one may perceive a principle which governs the differences between the cultures of the west and the east. Both seek beauty in the color contrast in hollies—the bright red berries among glossy dark green leaves. It seems to me that the Occidental people combine beauty with strength, as expressed by the spiny-leaved hollies, and the Oriental people see beauty in grace, as embodied in the smooth-leaved hollies. (It may be that the Oriental people are too soft to fall in love with spines!)

Cultivated Hollies in America

In American gardens hollies are planted for their magnificent shapes and handsome foliage. The tree species like *Ilex aquifolium*, *Ilex opaca* and *Ilex cornuta* are kept in their natural shape to provide valuable specimens in a landscape, or they may be trained into desired forms to fit a particular space or to make enduring hedges. The shrubby species like *Ilex glabra* and *Ilex crenata* are popular as foundation plantings or for use as low screens.

Of course, various hollies are cultivated for their attractive red berries. As a well-known English horticulturist, W. J. Bean, former curator, Royal Botanic Gardens, Kew, England, has remarked, "During the dark months a holly tree well laden with its bright red fruit is one of the handsomest and most cheerful objects our winter landscape provides." No doubt all plant lovers agree with him. Even the deciduous forms brighten up the desolated winter scene. Large quantities of holly twigs are sold for Christmas decorations.

These varied merits of cultivated hollies may lead some persons to

assume that American gardens possess all the kinds of holly that exist here. This is not true, and, in fact, the species of holly cultivated in American gardens are extremely limited in number, in morphological variations and in geographical origins.

Limited in Number of Species

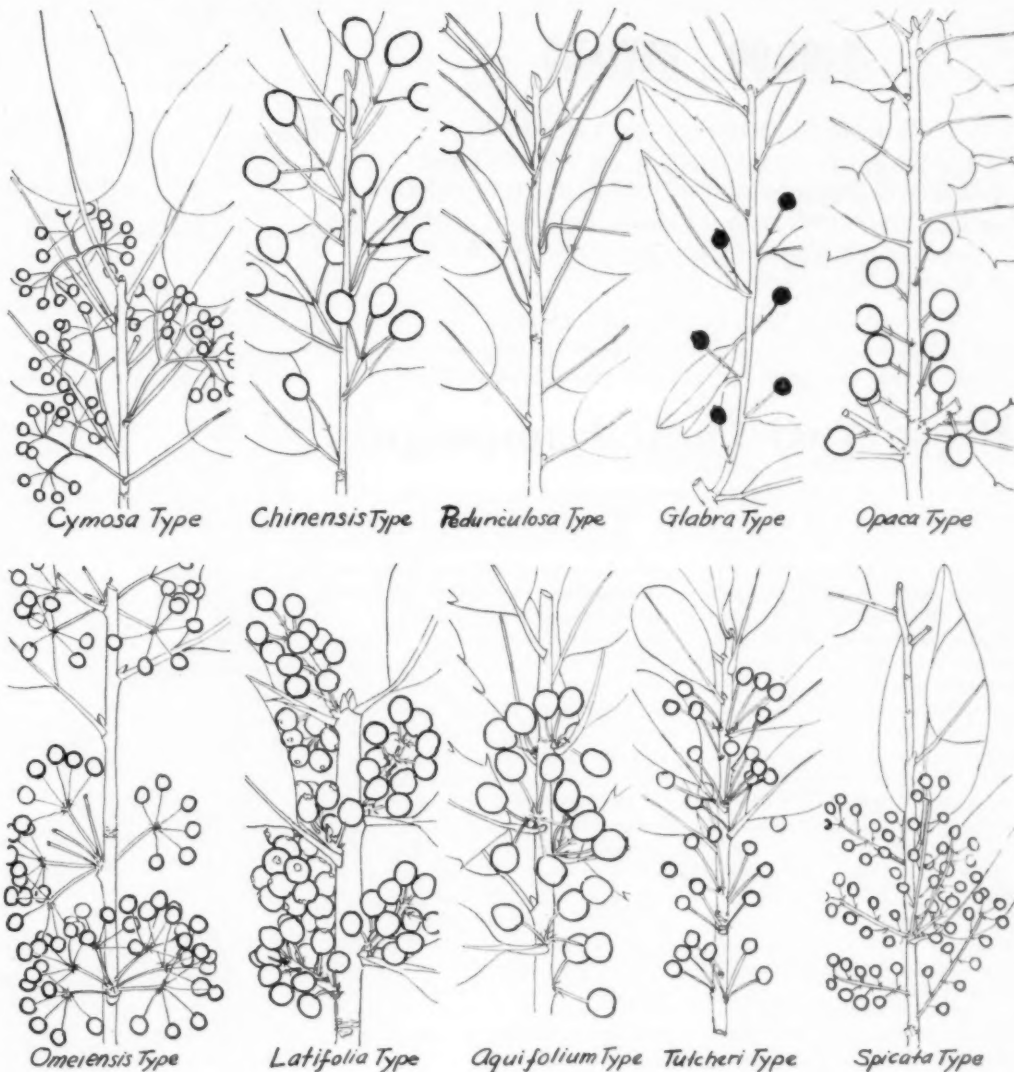
The American cultivated hollies are few in the number of species. *Ilex* is a large genus. "Index Kewensis" lists about 570 validly published species. In China alone there are about 118 native species. As to the exact number of species of holly cultivated in America, there are no adequate records. Probably the best source of information is Alfred Rehder's "Manual of Cultivated Trees and Shrubs." In this book, Rehder entered 16 species for the region covered; commented on 20 other species, which are outside the range the book was supposed to cover, and noted four hybrids, a total of 36 species and four hybrids. This is the most complete record of the cultivated species in America, and some of them no longer exist in gardens. For example, species like *Ilex franchetiana*, *Ilex corallina*, *Ilex rotunda*, *Ilex micrococca*, *Ilex szechwanensis* and *Ilex venulosa* are included by Rehder, but clearly many of these are unknown to propagators, nurserymen and even holly enthusiasts. They were once cultivated here or there, but never became widely distributed, and some have disappeared. Gustav Malmberg commented on 27 species grown at the Masonic home at Elizabethtown, Pa. If everything he mentioned exists in that garden, I should suspect that there is the best collection of living holly species.

The United States plant introduction garden at Glenn Dale, Md., has only 11 species. Usually a grower specializing in hollies concentrates on one or a few species and their forms. For example, the Fritze Holly Farm, on Cape Cod, Massachusetts, has only *Ilex opaca*. Some grow-

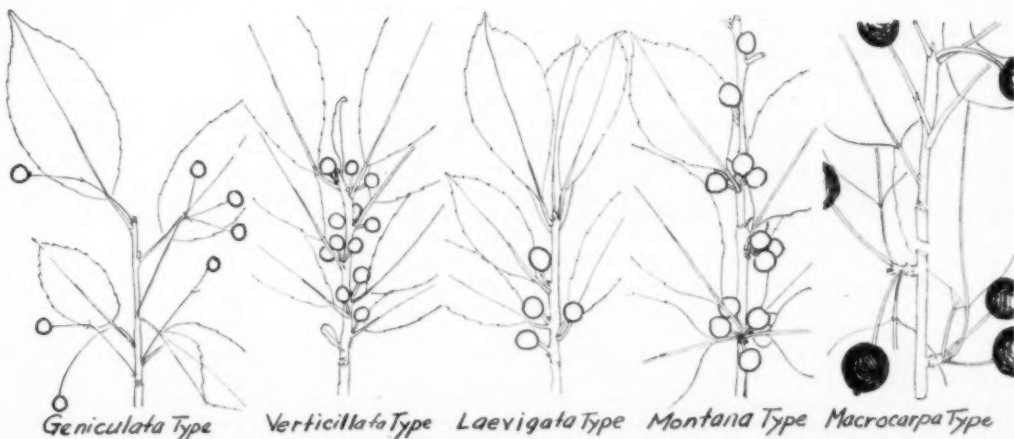
[Continued on page 76]

Fruiting Habits of Various Hollies

EVERGREEN



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By Lake Co. Nurserymen's Association

For information LEADING to the ARREST and CONVICTION of Persons STEALING, PILFERING or DESTROYING Nursery Stock, Tools, etc. on this Nursery OR having in their possession STOLEN Nursery Stock, etc.

Notify Lake Co. Sheriff's Dept.

Poster Used by Lake County, Ohio, Nurserymen to Discourage Thefts.

Press Anti-Theft Campaign

By Marie Brandstaetter

The Lake County Nurserymen's Association is distributing posters to its members in a campaign to stop the illegal movement of nursery stock in the Lake county, Ohio, area. The posters announce a \$100 reward for information leading to the arrest and conviction of persons stealing, pilfering, destroying or having in their possession stolen nursery stock, tools, etc. Members are asked to post these in conspicuous spots on their nursery buildings and grounds. Reports of suspicious persons are to be made direct to the Lake county sheriff's department.

This action was prompted by the recurrence of thefts throughout the spring shipping season and within the past few weeks.

At a special meeting of the association, the problem of controlling the movement of stolen nursery stock was discussed, and some of the members told of their experiences in this regard. It was their observation that most of the pilfering is being done from dusk on into the night and early morning hours.

It was brought to the attention of the Lake county sheriff's department representative that no nursery stock should be moved without a valid nursery inspection tag attached thereto. This tag must bear an exact copy of the valid certificate of inspection issued to a grower or a valid nursery dealer's certificate issued to a dealer. The suggestion was made that the nurserymen's association furnish the sheriff's department with a list of licensed growers and dealers in the state and an explanation of the rules and regulations governing

the sale and transfer of nursery stock, so that any person apprehended may be checked to determine whether he is conforming with the law.

A motion was passed that the L. C. N. A. ask the sheriff's department and state highway patrol to assist them in tracing stolen stock and apprehending persons connected with the thefts. Since the major portion of the thefts occurs after dark, vehicles transporting nursery stock between 6 p. m. and 6 a. m. will be checked, particularly during April and May, the peak shipping months, as well as an occasional car conveying stock during the daytime. It was also suggested that trucks carrying nursery stock which do not bear the name of a nursery be stopped and the driver checked to see whether a copy of an invoice or bill of sale is in his possession.

It is the responsibility of everyone in the nursery industry to cooperate and furnish anyone who purchases stock with a certificate of nursery inspection and an invoice or bill of sale. It was also suggested that in the case of small purchases, the name and address of the purchaser and date of sale be written in indelible pencil on the back of the certificate. In this way, the certificate will be used only once for that particular transaction and, in the case of illegal operators, it could not be retained and used again when stolen goods are being transported.

If everyone will cooperate, the investigations of the law enforcement officers will be less difficult and annoyance of customers who have purchased stock will be eliminated.

LOUISIANA SHORT COURSE FEATURES SALES

Nurserymen and florists attending Louisiana's first sales and management short course, held this summer at Louisiana State University, Baton Rouge, expressed great satisfaction with the course.

Because of the success of the course, the Louisiana State Horticultural Association and the Louisiana State University department of horticulture, which jointly sponsored the meeting, plan to offer a similar short course during the summer of 1955.

The course emphasized the selling rather than the growing phases of the nursery and florists' trades. It was designed to help businessmen operate more efficiently and to help develop their salesmanship. Lectures were given by outstanding speakers from four states. In addition, work sessions, demonstrations and discussions were included in the program.

Featured speaker for the event was Dr. Frank Goodwin, professor of marketing at the University of Florida. Among his three speeches was "Contagious Personality Traits," which he gave at the banquet.

Other subjects of speakers included motivating employees, time study, credits and store management, holiday preparations, public relations, window displays, income tax tips and savings, time savers, soil problems and numerous other phases of the horticultural trades.

PENNSYLVANIA NURSERYMEN PRESENT 4-H AWARDS

The Pennsylvania Nurserymen's Association presented awards to the high scorers in the flower identification contest at the 30th Pennsylvania 4-H Club week, held August 9 to 12 at Pennsylvania State University, State College, Pa. Ada Louise Kreider, Lititz, and Ruth Wessner, New Tripoli, tied for first place among the girls, and each received a silver necklace from the nurserymen's group. Donald Breininger, New Tripoli, was the top scorer among the boys and received a silver medal.

TWO greenhouses are being constructed for the Gurney Seed & Nursery, Yankton, S. D., and will be ready for use this fall. The purpose of the greenhouses will be to serve more efficiently the firm's mail-order and local trade.



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EXTRA-LONG
growing periods
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	SIZES	1 1/2 x 1 1/2 x 2 1/2	1 3/4 x 1 3/4 x 2 1/2	2 x 2 x 2 1/2	2 x 2 x 3	2 1/2 x 2 1/2 x 3	3 x 3 x 3	4 x 4 x 3	4 x 4 x 4
PRICE PER M	VB-10	3.70	4.00	4.55	5.05	6.00	6.90	9.00	11.25
	VB-D	3.85	4.15	4.65	5.35	6.05	7.05	9.25	11.60
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VITA- BAND 10	QUANTITY PER CASE	200	200	200	200	200	100	500	500
	WEIGHT PER CASE	31 LBS	35 LBS	40 LBS	48 LBS	59 LBS	35 LBS	23 LBS	31 LBS
VITA- BAND D	QUANTITY PER CASE	200	200	200	200	200	100	100	100
	WEIGHT PER CASE	21 LBS	24 LBS	27 LBS	32 LBS	41 LBS	24 LBS	32 LBS	42 LBS
VITA- BAND H	QUANTITY PER CASE		100	100	100	500	500	500	500
	WEIGHT PER CASE		28 LBS	32 LBS	38 LBS	24 LBS	28 LBS	37 LBS	49 LBS

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PLANT NOTES HERE AND THERE

By C. W. Wood

The past summer I had the opportunity again to go over a nice collection of acanthuses, the first time since we had several kinds under trial about 15 years ago, and found that they had lost none of their charm. These plants, which are the bear's-breeches of gardens, furnish us with some of the most interesting of spectacular material in the entire range of herbaceous plants. And probably the best one for spectacular effects is *Acanthus mollis*, in its variety *latifolius*, if one can obtain it, or in the type, if *latifolius* cannot be located. Unfortunately, *latifolius* seems to be somewhat scarce in this country, though I see seeds listed occasionally in European lists, and this is how we received ours; but its rareness should be not discouraging, for it can be found.

The real beauty and usefulness of bear's-breeches is found in the leaves, which in *A. mollis* is most striking, each radical leaf being as much as two feet long, half that broad and deeply pinnated. In deep, rich soil, the type will grow three or four feet tall, while variety *latifolius* should surpass that by a foot or two. Both are spectacular plants.

No such growth can be expected, however, unless the soil is rich and the moisture supply is constant throughout the growing season. In addition to the foregoing, the plants need full sun, good drainage and a sheltered position. Shelter is needed in the northern Michigan climate for protection from cold in winter, and even then they should have a deep mulch through the winter if one expects them to survive low temperatures. I have no idea how much cold they can stand, because there is little in literature upon which to base an opinion, and northern Michigan is the only section of the country with which I am familiar as far as acanthus culture is concerned. They proved to be somewhat uncertain in this wind-swept garden, but are generally safe in protected places under a good mulch. In our trials, variety *latifolius* came through winters in which the type succumbed. They come readily from seeds and bloom the second year; the ones mentioned

have hooded, pink flowers, in long spikes, during the summer.

Native Catchflies

Few catchflies are popular with nurserymen, not because they are poor garden plants, but rather that many of the really good ones are difficult to transplant. That is especially true of the western Americans, of which *Silene californica*, *S. hookeri* and *S. laciniata* are brilliant examples. Speaking from my own point of view, I think that I would go to more pains to grow the three plants named than almost any other set of rock garden plants, if I were

gardening strictly for my own pleasure. And they do require care, too, because they are not reliably hardy in my cold climate, often dying during a cold, snowless winter. Then, too, they are not easy to transplant, because of their long taproots and the softness of their leaves. Commercially, they could be grown in pots to overcome the latter complaint, and their tenderness to cold in all except the coldest parts could be conquered by careful mulching.

Silene californica is perhaps the loveliest of the three, though it would be hard for me to choose be-

[Continued on page 25]

GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

	Per 1000
American Arborvitae, 4-yr. transplants, (2-2), 4 to 8 in.	\$65.00
Balsam Fir, 4-yr. transplants, (2-2), 4 to 8 in.	65.00
Austrian Pine, 3-yr. transplants, (2-1), 3 to 5 in.	50.00
Red Pine, 4-yr. transplants (2-2), 4 to 10 in.	65.00
Red Pine, 3-yr. transplants (2-1), 3 to 5 in.	50.00
Scotch Pine, 4-yr. transplants, (2-2), 8 to 10 in.	60.00
Norway Spruce, 4-yr. transplants, (2-2), 4 to 8 in.	60.00

SEEDLINGS

(Not Guaranteed)

Austrian Pine, 3-yr. seedlings (3-0) 5 to 10 in.	30.00
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White Pine, 3-yr. seedlings, (3-0), 4 to 8 in.	25.00
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Colorado Blue Spruce, 3-yr. seedlings, (3-0), 3 to 5 in.	45.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 in.	30.00
White Spruce, 3-yr. seedlings, (3-0), 4 to 8 in.	30.00

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90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1955. (Seedlings not guaranteed.)



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1-yr., rooted cuttings... \$ 8.00 \$ 70.00
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As an average Whitney dealer, I sold *more* lawn seed this past season than *ever before*. Sure it's a top-flight quality seed, but more than that, it's "dressed-up" to *sell*. Here's what I mean . . .

● Whitney's new full color boxes just won't let a customer pass without noticing. They catch all that come on purpose to buy seed . . . and plenty of others who come on other business.

● People like to have *fun* at whatever they do. That's why Whitney's encouragement of lawn enjoyment puts plenty of people in a buying frame of mind. You've seen Whitney's gay, tuneful theme . . . "and the green grass grows all around . . . all around".

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Terms are cash with order from unknown customers. To those of approved credit, terms are net 30 days from date of shipment. Boxing extra at cost. We sell 50 of the same size and variety at the 100 rate, 500 at the 1000 rate.

We do not have the Japanese Beetle.

Varieties marked (*) are suitable for rock gardens.

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* <i>ASPLENUM platyneuron</i> , (Ebony Spleenwort).....	2.50	15.00
* <i>ASPLENUM trichomanes</i> , (Maidenhair Spleenwort).....	3.00	18.00
* <i>ATHYRIUM filix-foemina</i> , (Lady Fern).....	2.00	10.00	80.00
<i>pycnocarpum</i> , (Narrow-Leaf Spleenwort).....	2.50	15.00	.....
<i>thelypteroides</i> , (Silvery Spleenwort).....	2.00	12.00	100.00
<i>BOTRYCHIUM virginianum</i> , (Rattlesnake Fern).....	2.50	15.00	.....
* <i>CAMPYLOSORUS rhizophyllus</i> , (Walking Fern).....	2.50	15.00	.....
* <i>CYSTOPTERIS bulbifera</i> , (Berry Bladder Fern).....	2.00	10.00	80.00
* <i>CYSTOPTERIS fragilis</i> , (Brittle Bladder Fern).....	3.00	15.00	.....
* <i>DENNSTAEDTIA punctiloba</i> , (Hay-scented Fern).....	2.00	10.00	80.00
* <i>DENNSTAEDTIA punctiloba</i> , square foot sods.....	4.50	35.00	250.00
<i>DRYOPTERIS cinctoniana</i> , (Clinton Wood Fern).....	2.50	15.00	.....
<i>cristata</i> , (Crested Wood Fern).....	2.50	10.00	90.00
<i>dilatata</i> , (Mountain Wood Fern).....	4.50	30.00	.....
* <i>dijuncta</i> , (Oak Fern).....	2.50	15.00	.....
<i>goldiana</i> , (Goldie Wood Fern).....	3.00	20.00	.....
* <i>hexagonoptera</i> , (Broad Beech Fern).....	3.00	20.00	.....
* <i>marginalis</i> , (Leather Wood Fern).....	2.00	10.00	80.00
* <i>novboracensis</i> , (New York Fern).....	2.00	10.00	80.00
* <i>phlegopteris</i> , (Narrow Beech Fern).....	2.00	10.00	80.00
* <i>spinulosa</i> , (Toothed Wood Fern).....	2.00	10.00	80.00
<i>thelypteris</i> , (Marsh Fern).....	2.00	10.00	.....
* <i>ONOCLEA sensibilis</i> , (Sensitive Fern).....	2.00	10.00	80.00
<i>OSMUNDA cinnamomea</i> , (Cinnamon Fern).....	2.50	12.00	100.00
<i>claytoniana</i> , (Interrupted Fern).....	2.50	12.00	100.00
<i>regalis</i> , (Royal Fern).....	2.50	12.00	100.00
* <i>POLYPODIUM vulgare</i> , (Common Polypody), sods.....	2.00	10.00	80.00
* <i>POLYSTICHUM acrostichoides</i> , (Christmas Fern).....	2.00	10.00	80.00
* <i>POLYSTICHUM braunii</i> , (Braun Holly Fern).....	4.00	30.00	.....
* <i>PTERETIS nodulosa</i> , (Ostrich Fern).....	2.50	10.00	80.00
* <i>PTERIDIUM aquilinum</i> , (Bracken).....	2.50	12.00	100.00
* <i>WOODSIA ilvensis</i> , (Rusty Woodsia).....	2.50	15.00	.....
* <i>WOODSIA obtusa</i> , (Common Woodsia).....	2.50	15.00	.....
<i>WOODWARDIA virginica</i> , (Virginia Chain Fern).....	2.00	10.00	80.00

HARDY NATIVE ORCHIDS

	Per 12	Per 100	Per 1000
<i>CALOPOGON pulchellus</i> , (Grass Pink Orchid).....	\$3.00	\$20.00	.....
<i>CYPRIPEDION acule</i> , (Pink Lady's-slipper), large flowering plants.....	2.50	12.00	100.00
2 to 4-crown clumps.....	5.00	40.00	.....
<i>rietium</i> , (Ramshead Lady's-slipper).....	12.00	.....	.....
<i>pubescens</i> , (Common Yellow Lady's-slipper), 1-crown plants.....	3.00	20.00	180.00
clumps with 2 to 3 crowns.....	6.00	50.00	.....
4 to 8 flowering crown clumps.....	12.00	90.00	.....
<i>reginae</i> (spectabile), (Showy Lady's-slipper), 1-crown plants.....	3.00	20.00	180.00
clumps with 2 to 3 crowns.....	6.00	50.00	.....
4 to 8 flowering crown clumps.....	12.00	100.00	.....
<i>GOODYERA pubescens</i> , (Downy Rattlesnake Plantain).....	3.00	20.00	.....
<i>GOODYERA repens</i> , (Creeping Rattlesnake Plantain).....	6.00	.....	.....
<i>HABENARIA ciliaris</i> , (Yellow Fringe Orchid).....	3.50	25.00	.....
<i>fimbriata</i> , (Large Purple Fringe Orchid).....	5.00	35.00	.....
<i>lacera</i> , (Green Fringe Orchid).....	3.50	25.00	.....
<i>psycodes</i> , (Small Purple Fringe Orchid).....	4.00	30.00	.....
<i>OCHIS spectabilis</i> , (Showy Orchid).....	4.00	30.00	.....
<i>POGONIA ophioglossoides</i> , (Rose Pogonia).....	3.00	20.00	.....
<i>SPIRANTHES cernua</i> , (Nodding Lady's-tresses).....	3.50	.....	.....

HARDY NATIVE LILIES AND BULBOUS PLANTS

	Per 12	Per 100	Per 1000
<i>ARISAEMA triphyllum</i> , (Indian Jack-in-the-Pulpit).....	\$2.00	\$10.00	\$ 80.00
* <i>CONVALLARIA majalis</i> , (Lily-of-the-Valley), sods.....	3.00	20.00	.....
* <i>DICENTRA canadensis</i> , (Squirrel Corn).....	2.00	10.00	.....
<i>ecucularia</i> , (Dutchman's-Breeches).....	2.00	10.00	.....
<i>eximia</i> , (Fringed Bleeding Heart).....	3.00	20.00	.....
* <i>ERYTHRONIUM americanum</i> , (Common Fawn Lily).....	2.00	10.00	80.00
<i>LILIUM canadense</i> , (Canada Lily), extra large.....	5.00	35.00	.....
first size.....	2.50	15.00	120.00
second size.....	1.50	8.00	70.00
<i>coccineum</i> , (Red Canada Lily).....	3.50	20.00	.....
<i>flavum</i> , (Yellow Canada Lily).....	2.50	15.00	120.00
* <i>philadelphicum</i> , (Wood Lily), extra large.....	4.00	30.00	.....
first size.....	2.50	15.00	.....
second size.....	2.00	10.00	.....
<i>superbum</i> , (Turk's-cap Lily), extra large.....	6.00	40.00	.....
strong selected first size.....	3.00	16.00	140.00
medium first size.....	2.50	12.00	100.00
<i>tigrinum</i> , (Tiger Lily).....	2.50	15.00	.....

LILIES AND BULBOUS PLANTS, Contd.

	Per 12	Per 100	Per 1000
<i>MERTENSIA virginica</i> , (Virginia Bluebells) mammoth roots.....	\$3.50	\$25.00	.....
strong first size.....	2.50	15.00	120.00
medium flowering size.....	2.00	8.00	70.00
* <i>SANGUINARIA canadensis</i> , (Bloodroot) first size.....	1.50	8.00	70.00
* <i>TRILLIUM erectum</i> , (Purple Trillium) first size.....	1.50	9.00	80.00
* <i>grandiflorum</i> , (Snow Trillium), first size.....	1.50	8.00	70.00
<i>sessile</i> , (Red Toad Trillium).....	2.00	12.00	.....
<i>sessile luteum</i> , (Yellow Toad Trillium), first size.....	2.00	12.00	.....
* <i>stylosum</i> , (Rose Trillium), first size.....	2.00	12.00	.....
* <i>undulatum</i> , (Painted Trillium), first size.....	1.50	10.00	80.00

HARDY NATIVE AQUATIC AND BOG PLANTS

	Per 12	Per 100	Per 1000
<i>ACORUS calamus</i> , (Drug Sweet Flag).....	\$2.50	\$15.00	.....
<i>ASCLEPIAS incarnata</i> , (Swamp Milkweed).....	2.50	15.00	.....
<i>CALLA palustris</i> , (Wild Calla).....	2.00	12.00	100.00
<i>CALTHA palustris</i> , (Common Marsh Marigold).....	2.00	10.00	80.00
<i>CHELONE glabra</i> , (White Turtlehead).....	2.50	12.00	.....
<i>IRIS prismatica</i> , (Cubessed Iris).....	2.00	10.00	80.00
<i>IRIS versicolor</i> , (Blue Flag Iris).....	2.00	10.00	80.00
<i>MIMULUS ringens</i> , (Alleghany Monkey Flower).....	2.50	15.00	.....
<i>NUPHAR advena</i> , (Spatterdock Cow Lily).....	2.50	15.00	.....
<i>NYMPHAEA odorata</i> , (American Water Lily).....	2.50	15.00	.....
<i>PONETERIA cordata</i> , (Pickerselweed).....	2.00	12.00	.....
<i>SAGITTARIA latifolia</i> , (Common Arrowhead).....	2.50	15.00	.....
<i>SARRACENIA purpurea</i> , (Common Pitcher Plant).....	2.50	15.00	120.00
<i>THALICTRUM polygamum</i> , (Tall Meadow Rue).....	2.50	12.00	100.00
<i>TYPHA latifolia</i> , (Common Cattail).....	2.50	15.00	.....

HARDY NATIVE WILD FLOWERS AND GROUND COVER PLANTS

	Per 12	Per 100	Per 1000
* <i>ACTAEA alba</i> , (White Baneberry).....	\$2.50	\$15.00	.....
* <i>ACTAEA rubra</i> , (Red Baneberry).....	2.50	15.00	.....
<i>ANEMONE cylindrica</i> , (Candle Anemone).....	2.50	12.00	.....
<i>ANEMONE quinquefolia</i> , (American Wood Anemone).....	2.00	10.00	\$ 80.00
* <i>ANEMONELLA thalictrifolia</i> , (Anemonella).....	2.50	15.00	.....
* <i>AQUILEGIA canadensis</i> , (American Columbine).....	2.00	10.00	80.00
<i>ARALIA hispida</i> , (Bristly Aralia).....	2.50	12.00	.....
<i>ARALIA nudicaulis</i> , (Wild Sarsaparilla).....	2.50	12.00	.....
* <i>ASARUM canadense</i> , (Canada Wild Ginger).....	2.00	10.00	80.00
<i>ASCLEPIAS tuberosa</i> , (Butterfly Milkweed).....	2.50	15.00	.....
<i>ASTER ericoides</i> , (Heath Aster).....	2.50	15.00	100.00
<i>ASTER linariifolius</i> , (Savory Leaf Aster).....	2.50	15.00	100.00
<i>ASTER novaeangliae</i> , (New England Aster).....	2.50	15.00	.....
<i>ASTER navibergi</i> , (New York Aster).....	2.50	15.00	.....
<i>BAPTISIA tinctoria</i> , (Yellow Wild Indigo).....	3.00	20.00	.....
<i>CAULOPHYLLUM thalictrifolia</i> , (Blue Cohosh).....	2.50	15.00	.....
* <i>CHIMAPHILA umbellata</i> , (Common Pipsissewa).....	2.50	15.00	.....
* <i>CHIOGENES hispida</i> , (Creeping Pearberry).....	3.00	18.00	.....
<i>CIMICIFUGA racemosa</i> , (Cohosh Bugbane).....	3.00	18.00	.....
* <i>CLAYTONIA virginica</i> , (Virginia Spring Beauty).....	2.00	12.00	100.00
<i>CLINTONIA borealis</i> , (Yellow Beadlily).....	2.50	15.00	.....
* <i>CORYLIS trifolia</i> , (Alaska Goldthread), sods.....	2.00	10.00	80.00
* <i>CORNUS canadensis</i> , (Bunchberry Dogwood), 4-in. sods.....	3.00	18.00	.....
(Bunchberry Dogwood), strong roots.....	2.00	8.00	80.00
<i>CORYDALIS sempervirens</i> , (Pale Corydalis).....	2.50	15.00	.....
* <i>DALIBARDA repens</i> , (Starviolet Dalibarda), sods.....	3.00	18.00	.....
* <i>DODECATHEON meadia</i> , (Common Shooting Star).....	2.00	12.00	100.00
<i>EPIGEA repens</i> , (Trailing Arbutus), with ball.....	3.50	25.00	.....
<i>EPIGEA repens</i> , (Trailing Arbutus), large sods.....	5.00	35.00	.....
<i>EPILOBIUM angustifolium</i> , (Fireweed).....	2.50	15.00	.....
<i>EUPATORIUM perfoliatum</i> , (Boneset).....	2.00	10.00	80.00
<i>purpureum</i> , (Bluestem Joe-Pye-Weed).....	2.00	10.00	80.00
<i>rugosum</i> , (White Snakeroot).....	3.00	18.00	150.00
<i>GALAX aphylla</i> , (Galax).....	6.00	40.00	.....
* <i>GAULTHERIA procumbens</i> , (Checkerberry Wintergreen), sods.....	2.50	15.00	120.00
<i>GENTIANA andrewsii</i> , (Andrew's Gentian).....	2.50	15.00	.....
<i>GENTIANA linearis</i> , (Narrow Leaf Gentian).....	2.50	15.00	.....
* <i>GERANIUM maculatum</i> , (Spotted Geranium).....	2.00	8.00	70.00
* <i>GERANIUM robertianum</i> , (Herb Robert Geranium).....	2.50	15.00	.....
* <i>GLECOMA hederacea</i> , (Ground Ivy).....	2.50	15.00	120.00
<i>HEMEROCALLIS fulva</i> , (Tawny Day Lily).....	2.50	15.00	.....
* <i>HEPATICA acutiloba</i> , (Sharplobe Hepatica) 1 to 2 bud plants.....	2.00	10.00	80.00
3 to 6 bud plants.....	2.50	15.00	120.00
* <i>americana</i> , (Roundlobe Hepatica) 1 to 2 bud plants.....	2.00	10.00	80.00
3 to 6 bud plants.....	2.50	15.00	120.00
* <i>HOUSTONIA caerulea</i> , (Common Bluets), sods.....	2.00	10.00	80.00
<i>HYPOXIS hirsuta</i> , (Common Gold Star Grass).....	3.50	25.00	.....
* <i>IRIS cristata</i> , (Crested Iris).....	3.00	20.00	.....
<i>LESPEDEZA capitata</i> , (Roundhead Lespedeza).....	2.50	12.00	.....
<i>LIATRIS pycnostachya</i> , (Kansas Gay-leather).....	2.50	12.00	.....
<i>LIATRIS scariosa</i> , (Tall Gay-leather).....	2.50	12.00	.....
* <i>LINARIA vulgaris</i> , (Butter-and-eggs Toadflax).....	2.50	12.00	.....
* <i>LINNAEA americana</i> , (American Twinflower).....	3.00	20.00	150.00
<i>LOBELIA cardinalis</i> , (Cardinal Flower), large.....	2.50	10.00	80.00
medium flowering size.....	2.00	7.00	60.00

FALL, 1954—WHOLESALE PRICE LIST—SPRING, 1955—ISAAC LANGLEY WILLIAMS

WILD FLOWERS AND GROUND COVER PLANTS, Contd.

	Per 12	Per 100	Per 1000
LYCHNIS flosculi, (Ragged Robin)	\$2.50	\$12.00	\$100.00
LYCOPODIUM complanatum labelliforme, (Ground Cedar)	2.50	12.00	100.00
obscurum, (Ground Pine)	2.50	15.00	120.00
*LYSIMACHIA nummularia, (Moneywort), sds.	2.50	15.00	120.00
LYTHRUM salicaria, (Purple Lythrum)	2.50	15.00	
*MAIANTHEMUM canadense, (Canada Beadruby), sds.	2.50	12.00	100.00
*MEDEOLA virginiana, (Cucumber-Root Medeola)	3.00	20.00	
MENTHA spicata, (Spearmint)	2.50	12.00	100.00
*MITCHELLA repens, (Partridgeberry), sds.	2.50	12.00	100.00
*MITELLA diphylla, (Common Miterwort)	3.00	20.00	
MONARDA fistulosa, (Wild Bergamot Bee Balm)	2.50	15.00	
*OXALIS acetosella, (Wood Sorrel Oxalis)	3.00	20.00	
*PEDICULARIS canadensis, (Early Pedicularis)	2.50	15.00	
*PHLOX divaricata, (Sweetwilliam Phlox), clumps	2.50	15.00	120.00
PODOPHYLLUM peltatum, (Common Mayapple)	2.50	12.00	100.00
POLYGALA paucifolia, (Fringed Polygala), sds.	3.00	20.00	
*POLYGONATUM biflorum, (Small Solomon's-seal)	2.50	12.00	100.00
POLYGONATUM commutatum, (Great Solomon's-seal)	3.00	20.00	
*POTENTILLA tridentata, (Wineleaf Cinquefoil), sds	3.00	20.00	150.00
*PYROLA americana, (American Pyrola)	2.50	15.00	
*chlorantha, (Green Pyrola)	2.50	15.00	
*elliptica, (Waxflower Pyrola)	2.50	15.00	
RUBRICKIA hirta, (Black-eyed Susan)	2.50	12.00	100.00
SANGUISORBA canadensis, (American Burnet)	3.00	18.00	
SAPONARIA officinalis, (Bouncing Bet)	2.50	15.00	
SAXIFRAGA pennsylvanica, (Pennsylvania Saxifrage)	2.50	12.00	
*SAXIFRAGA virginiana, (Virginia Saxifrage)	2.50	12.00	
SHORTIA galacifolia, (Oconee-bells)	6.00	50.00	
SISYRINCHIUM angustifolium, (Common Blue-eyed Grass)	3.00	20.00	
SMILACINA racemosa, (Feather Solomon's-plume)	2.50	12.00	100.00
SOLIDAGO sempervirens, (Seaside Goldenrod)	2.50	15.00	
THALICTRUM dioicum, (Early Meadow Rue)	3.00	20.00	
THALICTRUM polygamum, (Tall Meadow Rue)	2.50	12.00	100.00
*THIARELLA corollata, (Allegheny Foamflower)	2.50	12.00	100.00
TRIDESANTIA virginiana, (Virginia Spiderwort)	2.50	10.00	80.00
TRIENTALIS borealis, (American Starflower)	2.50	15.00	
*UVULARIA grandiflora, (Big Merrybells)	3.00	20.00	
perfoliata, (Wood Merrybells)	3.00	20.00	
sessilifolia, (Little Merrybells)	2.50	12.00	
VERBENA hastata, (Blue Verbena)	3.00		
*VERONICA officinalis, (Drug Speedwell)	2.00	10.00	80.00
*VINCA minor, (Common Periwinkle), clumps	2.00	8.00	70.00
VIOLA blanda, (Sweet White Violet)	2.00	10.00	80.00
*canadensis, (Canada Violet)	2.00	10.00	80.00
cucullata, (Beehive Violet)	2.00	10.00	80.00
*ericarpe, (Woolpod Violet)	2.00	10.00	80.00
*fimbriatula, (Fringed Violet)	2.00	10.00	80.00
*lanceolata, (Lanceleaf Violet)	2.00	10.00	80.00
*pedata lineariloba, (Lilac Birdfoot Violet), strong plants	2.50	12.00	100.00
*pedata (bicolor), (Two-color Birdfoot Violet), strong plants	2.50	15.00	120.00
*pubescens, (Downy Violet)	2.00	10.00	80.00
*rotundifolia, (Roundleaf Violet)	2.00	10.00	80.00

HARDY NATIVE EVERGREENS
Collected

All evergreens will be carefully collected, and well packed to reach you in good condition.

	Per 10	Per 100	Per 1000
ABIES balsamea, (Balsam Fir)			
4 to 8 ins.		\$ 4.00	\$ 30.00
6 to 12 ins.		8.00	60.00
12 to 18 ins.	\$2.50	20.00	
18 to 24 ins.	4.00	30.00	
CHAMAECYPARIS thyoides, (White Cedar False-cypress)			
6 to 12 ins.		5.00	40.00
1 to 2 ft.		10.00	80.00
2 to 3 ft.	4.00	30.00	
3 to 4 ft.	6.00	50.00	
JUNIPERUS communis depressa, (Oldfield Common Juniper)			
4 to 8 ins.		8.00	70.00
8 to 12 ins.		2.00	12.00
12 to 18 ins., B&B.		15.00	120.00
18 to 24 ins., B&B.		20.00	160.00
2 to 3 ft., B&B.		25.00	200.00
JUNIPERUS virginiana, (Eastern Red Cedar)			
4 to 8 ins.		8.00	
8 to 12 ins.		12.00	
PICEA rubens, (Red Spruce)			
4 to 8 ins.		8.00	
8 to 12 ins.		10.00	
12 to 18 ins.	2.50	20.00	
18 to 24 ins.	4.00	30.00	
PINUS strobus, (White Pine)			
3 to 4 ft., B&B.		30.00	250.00
4 to 5 ft., B&B.		35.00	300.00
5 to 6 ft., B&B.		40.00	350.00
TAXUS canadensis, (Canada Yew)			
6 to 18 ins. in rooted layers		8.00	70.00
THUJA occidentalis, (Eastern Arborvitae)			
3 to 6 ins.		3.00	20.00
6 to 12 ins.		6.00	50.00
12 to 18 ins.	2.50	15.00	120.00
18 to 24 ins.	4.00	30.00	
TSUGA canadensis, (Canada Hemlock)			
6 to 9 ins.		4.00	20.00
9 to 12 ins.		6.00	45.00
12 to 18 ins.		8.00	65.00
18 to 24 ins.	4.00	30.00	

HARDY NATIVE TREES
AND SHRUBS
Collected

	Per 10	Per 100	Per 1000
ACER pensylvanicum, (Striped Maple)			
6 to 12 ins.		\$ 10.00	\$ 90.00
1 to 2 ft.		15.00	120.00
2 to 4 ft.		30.00	
rubrum, (Red Maple)			
1 to 2 ft.		7.00	60.00
2 to 3 ft.		10.00	90.00
3 to 4 ft.		15.00	120.00
4 to 6 ft.		40.00	
6 to 8 ft.		\$ 12.00	90.00
8 to 10 ft., 1/4 to 1 -in. cal.		16.00	150.00
10 to 12 ft., 1/4 to 1 1/2 -in. cal.		25.00	200.00
10 to 14 ft., 1/4 to 1 1/2 -in. cal.		40.00	350.00
12 to 15 ft., 1/4 to 1 1/2 -in. cal.		60.00	500.00
14 to 16 ft., 1/4 to 2 -in. cal.		70.00	600.00
14 to 18 ft., 2 to 2 1/2 -in. cal.		90.00	800.00
16 to 20 ft., 2 1/2 to 3 -in. cal.		120.00	1100.00
16 to 22 ft., 3 to 3 1/2 -in. cal.		220.00	2000.00
20 to 25 ft., 3 1/2 to 4 -in. cal.		300.00	
saccharum, (Sugar Maple)			
1 to 2 ft.		7.00	60.00
2 to 3 ft.		12.00	100.00
3 to 4 ft.		30.00	250.00
4 to 6 ft.		60.00	500.00
6 to 8 ft.		15.00	100.00
8 to 10 ft.		20.00	160.00
10 to 12 ft., 1 to 1 1/4 -in. cal.		25.00	200.00
10 to 14 ft., 1 1/4 to 1 1/2 -in. cal.		40.00	350.00
12 to 15 ft., 1 1/2 to 1 3/4 -in. cal.		60.00	500.00
14 to 16 ft., 1 3/4 to 2 -in. cal.		70.00	600.00
14 to 18 ft., 2 to 2 1/2 -in. cal.		90.00	800.00
16 to 20 ft., 2 1/2 to 3 -in. cal.		120.00	1100.00
20 to 22 ft., 3 to 3 1/2 -in. cal.		220.00	2000.00
20 to 25 ft., 3 1/2 to 4 -in. cal.		300.00	
spicatum, (Mountain Maple)			
1 to 3 ft.		20.00	
3 to 4 ft.		60.00	
ALNUS rugosa, (Hazel Alder)			
2 to 3 ft., clumps		4.00	35.00
3 to 4 ft., clumps		6.00	50.00
AMELANCHIER canadensis, (Shadblow Serviceberry)			
1 to 3 ft.		20.00	
2 to 3 ft., clumps		6.00	
3 to 4 ft., clumps		8.00	
ARONIA melanocarpa, (Black Chokeberry)			
1 to 2 ft.		9.00	80.00
2 to 3 ft., clumps		5.00	40.00
3 to 4 ft., clumps		7.00	60.00
BETULA lenta, (Sweet Birch)			
1 to 2 ft.		6.00	50.00
2 to 3 ft.		8.00	70.00
3 to 4 ft.		3.00	20.00
4 to 6 ft.		5.00	35.00
6 to 8 ft.		10.00	80.00
8 to 10 ft.		15.00	120.00
lutea, (Yellow Birch)			
1 to 2 ft.		6.00	50.00
2 to 3 ft.		8.00	70.00
3 to 4 ft.		3.00	20.00
4 to 6 ft.		5.00	35.00
6 to 8 ft.		10.00	80.00
8 to 10 ft.		15.00	120.00
papyrifera, (Paper Birch)			
6 to 12 ins.		4.00	30.00
1 to 2 ft.		6.00	50.00
2 to 3 ft.		8.00	70.00
3 to 4 ft.		3.50	25.00
4 to 6 ft.		5.00	40.00
6 to 8 ft.		10.00	90.00
8 to 10 ft.		20.00	150.00
10 to 12 ft.		25.00	200.00
12 to 14 ft.		40.00	300.00
4 to 6 ft., clumps, 3 stems and up		30.00	
6 to 8 ft., clumps, 3 stems and up, B&B.		40.00	
6 to 8 ft., clumps, 3 stems and up, B&B.		60.00	500.00
8 to 12 ft., clumps, 3 stems and up, B&B.		60.00	
8 to 12 ft., clumps, 3 stems and up, B&B.		80.00	
populifolia, (Gray Birch)			
1 to 2 ft.		4.00	30.00
2 to 3 ft.		5.00	40.00
3 to 4 ft.		3.00	15.00
4 to 6 ft.		5.00	35.00
6 to 8 ft.		8.00	70.00
4 to 6 ft., clumps, 3 stems and up		20.00	150.00
6 to 8 ft., clumps, 3 stems and up		35.00	250.00
8 to 10 ft., clumps, 3 stems and up		50.00	400.00
CARPINUS caroliniana, (American Hornbeam)			
1 to 2 ft.		12.00	100.00
2 to 4 ft.		4.00	30.00
4 to 6 ft.		7.00	60.00
CARYA (Hicoria) ovata, (Shagbark Hickory)			
1 to 3 ft.		5.00	40.00
3 to 5 ft.		8.00	75.00
CEPHALANTHUS occidentalis, (Common Buttonbush)			
6 to 18 ins.		10.00	90.00
2 to 3 ft., clumps		6.00	50.00
CHAMAEDAPHNE calyculata, (Leather Leaf)			
6 to 18 ins.		8.00	70.00
6 to 18 ins., clumps		5.00	40.00
CLETHRA alnifolia, (Summer Sweet Clethra)			
6 to 18 ins.		7.00	60.00
12 to 18 ins., clumps, heavy		3.00	25.00
18 to 24 ins., clumps, heavy		4.00	35.00
2 to 3 ft., clumps, heavy		6.00	50.00
3 to 4 ft., clumps, heavy		8.00	70.00

PRICE LIST CONTINUED ON PAGE 24

FALL, 1954—WHOLESALE PRICE LIST—SPRING, 1955—ISAAC LANGLEY WILLIAMS

HARDY NATIVE TREES AND SHRUBS, Collected, Contd.

	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
COMPTONIA asplenifolia , (Sweet Fern)				RHUS copallina , (Flameleaf Sumac)			
6 to 18 ins.				1 to 3 ft.		\$ 25.00	
18 to 24 ins., clumps	\$ 4.00	30.00		glabra , (Smooth Sumac)			
CORNUS alternifolia , (Pagoda Dogwood)				1 to 2 ft.		7.00	\$ 60.00
1 to 2 ft.		20.00		2 to 3 ft.		10.00	90.00
2 to 4 ft.	6.00	50.00		3 to 4 ft., stocky		25.00	
florida , (Flowering Dogwood)				typhina , (Staghorn Sumac)			
1 to 2 ft.		12.00		6 to 12 ins.		5.00	40.00
2 to 3 ft.	5.00	40.00		1 to 2 ft.		6.00	50.00
3 to 4 ft.	7.00	60.00		2 to 3 ft.		12.00	100.00
4 to 6 ft.	9.00	80.00		3 to 4 ft., branched		25.00	
6 to 8 ft.	15.00	125.00		RUBUS odoratus , (Fragrant Thimbleberry)			
8 to 10 ft.	25.00	200.00		1 to 3 ft.		25.00	
racemosa , (Grey Dogwood)				SAMBUCUS canadensis , (American Elder)			
1 to 2 ft.		7.00	60.00	2 to 3 ft.		10.00	90.00
2 to 3 ft., clumps	4.00	30.00		pubens , (Scarlet Elder)			
3 to 4 ft., clumps	5.00	40.00		1 to 2 ft.		25.00	
CORYLUS americana , (American Filbert)				SORBUS americana , (American Mountain Ash)			
1 to 3 ft.		8.00	70.00	6 to 18 ins.	\$ 4.00	25.00	
2 to 3 ft., clumps	5.00	40.00		4 to 6 ft.	10.00	80.00	
3 to 4 ft., clumps	7.00	60.00		SPIRAEA latifolia , (Broadleaf Meadowsweet Spiraea)			
cornuta , (Beaked Filbert)				6 to 18 ins.		10.00	90.00
1 to 3 ft.		8.00	70.00	2 to 3 ft., clumps	4.00	35.00	
2 to 4 ft., clumps	7.00	60.00		tomentosa , (Hardhack Spiraea)			
CRATAEGUS intricata , (Thicket Hawthorn)				6 to 18 ins.		10.00	90.00
1 to 3 ft.		30.00		2 to 3 ft., clumps	4.00	35.00	
3 to 5 ft.	6.00	50.00		SYRINGA vulgaris , (Common Lilac)			
DIERVILLA lonicera , (Dwarf Bush Honeysuckle)				1 to 2 ft.		7.00	60.00
DIRCA palustris , (Atlantic Leatherwood)				2 to 3 ft.	2.00	12.00	100.00
6 to 12 ins.		10.00		3 to 4 ft.	5.00	40.00	
1 to 2 ft.	2.00	15.00		VACCINIUM angustifolium (pensylvanicum),			
2 to 3 ft., branched	4.00	30.00		(Lowbush Blueberry)			
3 to 5 ft., branched	6.00	50.00		6 to 12 ins.		10.00	90.00
FAGUS grandifolia , (American Beech)				sq. ft. sods	5.00	40.00	300.00
6 to 12 ins.		6.00	50.00	corymbosum , (Highbush Blueberry)			
1 to 2 ft.		8.00	70.00	6 to 12 ins.		15.00	120.00
2 to 4 ft.	5.00	40.00		18 to 24 ins., clumps	8.00	70.00	
4 to 6 ft.	8.00	75.00		2 to 3 ft., heavy clumps	10.00	90.00	
FRAXINUS americana , (White Ash)				3 to 4 ft., heavy clumps	16.00	140.00	
1 to 2 ft.		6.00	50.00	4 to 5 ft., heavy clumps	30.00	200.00	
GAYLUSSACIA baccata , (Black Huckleberry)				VIBURNUM acerifolium , (Mapleleaf Viburnum)			
sq. ft. sods	5.00	35.00	300.00	6 to 18 ins.		8.00	70.00
HAMAMELIS virginiana , (Common Witch Hazel)				2 to 3 ft., clumps	6.00	50.00	
6 to 18 ins.		15.00		3 to 4 ft., clumps	8.00	70.00	
2 to 3 ft., clumps	5.00	40.00		alnifolium , (Hobblebush Viburnum)			
3 to 4 ft., clumps	7.00	60.00		1 to 3 ft.		10.00	80.00
4 to 6 ft., clumps	8.00	75.00		2 to 3 ft., clumps	7.00	60.00	
ILEX verticillata , (Common Winterberry)				cassinoides , (Witherod Viburnum)			
1 to 2 ft.		10.00	90.00	1 to 2 ft.		6.00	70.00
18 to 24 ins., clumps	5.00	35.00		12 to 18 ins., clumps	3.00	25.00	225.00
2 to 3 ft., clumps	6.00	50.00		18 to 24 ins., clumps	4.00	30.00	
3 to 4 ft., clumps	7.00	60.00		2 to 3 ft., clumps	5.00	40.00	
4 to 6 ft., clumps	10.00	90.00		3 to 4 ft., clumps	7.00	60.00	
KALMIA angustifolia , (Lambkill Kalmia)				4 to 5 ft., clumps	12.00	100.00	
6 to 18 ins.		9.00	80.00	dentatum , (Arrow-wood Viburnum)			
sq. ft. sods	5.00	40.00	350.00	1 to 2 ft.		8.00	70.00
latifolia , (Mountain Laurel Kalmia)				2 to 3 ft., clumps	4.50	35.00	
6 to 12 ins.	3.00	20.00	180.00	3 to 4 ft., clumps	6.00	50.00	
polifolia , (Bog Kalmia)	4.00	30.00		4 to 5 ft., clumps	7.50	65.00	
LINDERA benzoin , (Common Spicebush)				5 to 6 ft., clumps	12.00		
1 to 2 ft.		10.00		lentago , (Nannyberry Viburnum)			
2 to 4 ft., clumps	5.00	40.00		1 to 2 ft.		10.00	80.00
LYONIA ligustrina , (He-Huckleberry)				2 to 3 ft., clumps	5.00	40.00	
2 to 4 ft., clumps	8.00	70.00		3 to 4 ft., clumps	6.00	50.00	
MYRICA gale , (Sweet Gale, Bay Rum)				4 to 5 ft., clumps	8.00	70.00	
1 to 3 ft.		12.00	100.00	5 to 7 ft., clumps	10.00	90.00	
2 to 3 ft., clumps	8.00	70.00					
NEMOPANTHUS mucronata , (Mountain Holly)							
1 to 3 ft.		15.00					
2 to 3 ft., clumps	8.00	60.00					
3 to 4 ft., clumps	9.00	80.00					
NYSSA sylvatica , (Black Tupelo)							
1 to 2 ft.	5.00	40.00					
OSTRYA virginiana , (American Hop Hornbeam)							
6 to 18 ins.		12.00	100.00				
1 1/2 to 3 ft.	2.50	20.00	150.00				
3 to 5 ft.	6.00	50.00					
POTENTILLA fruticosa , (Bush Cinquefoil)							
1 to 2 ft.		20.00					
PRUNUS pensylvanica , (Pin Cherry)							
1 to 2 ft.		5.00	40.00				
2 to 3 ft.		6.00	50.00				
3 to 4 ft.		8.00	70.00				
4 to 6 ft.	4.00	30.00	250.00				
6 to 8 ft.	7.00	60.00					
virginiana , (Common Chokecherry)							
1 to 3 ft.		6.00	50.00				
3 to 5 ft.		10.00	90.00				
QUERCUS bicolor , (Swamp White Oak)							
1 to 3 ft.	6.00	50.00					
borealis , (Northern Red Oak)							
6 to 12 ins.		7.00	60.00				
1 to 3 ft.		30.00					
3 to 4 ft.	6.00	50.00					
4 to 6 ft.	10.00	80.00					
6 to 8 ft.	20.00	150.00					
8 to 10 ft., 1 -in. cal.	35.00	300.00					
10 to 12 ft., 1 1/2 to 2 -in. cal.	60.00	500.00					
12 to 15 ft., 2 to 2 1/2 -in. cal.	110.00	1000.00					
RHODODENDRON carolinianum , (Carolina Rhododendron)							
6 to 12 ins.	3.00	25.00					
canadense , (Rhodora)							
1 to 3 ft.		10.00	90.00				
12 to 18 ins., clumps, B&B	20.00	150.00					
18 to 24 ins., clumps, B&B	25.00	200.00					
catawbiense , (Catawba Rhododendron)							
6 to 12 ins.	3.00	25.00	200.00				
maximum , Rosebay Rhododendron)							
6 to 12 ins.	3.00	20.00	180.00				

NURSERY-GROWN STOCK
Evergreen Transplants

	Per 100	Per 1000
ABIES balsamea , (Balsam Fir)		
8 to 12 ins. transplants, 2-3	\$12.00	\$100.00
THUJA occidentalis , (Eastern Arborvitae)		
2 to 3 ft. transplants, hedge grade	50.00	
TSUGA canadensis , (Canadian Hemlock)		
4 to 8 ins. transplants, 2-2	15.00	120.00
8 to 12 ins. transplants, 2-2	20.00	180.00
12 to 15 ins. transplants, 2-2	35.00	

EVERGREENS
BALLED AND BURLAPPED

	Nursery-grown	Each	Each
	Per 10	Per 100	Per 1000
TSUGA canadensis , (Canadian Hemlock)			
300 2 to 2 1/2 ft., B&B	\$3.00	\$2.75	
300 2 1/2 to 3 ft., B&B	3.50	3.25	
300 3 to 4 ft., B&B	5.25	5.00	
THUJA occidentalis , (American Arborvitae)			
150 3 to 4 ft., B&B	2.25	2.00	

HARDY NATIVE VINES
Collected

	Per 12	Per 100	Per 1000
APIOS (tuberosa) americana , (American Potato-Bean)	\$ 2.00	\$ 8.00	\$ 70.00
ARCTOSTAPHYLOS uva-ursi , (Bearberry), 6 ins., sods	15.00		
CELASTRUS scandens , (American Bittersweet), 6 to 18 ins.		7.00	
1 1/2 to 3 ft.	2.00	10.00	
3 to 4 ft.	3.00	15.00	
CLEMATIS virginiana , (Virgin's Bower), large	2.50	12.00	
LONICERA japonica halliana , (Hall's Japanese Honeysuckle)	2.00	12.00	100.00
sempervirens , (Trumpet Honeysuckle)	2.00	12.00	100.00

tween it and *S. hookeri*. The former's inch-wide, scarlet flowers are deeply cut and are borne profusely on 8 to 10-inch stems. It grows best, I believe, in full sun, while *S. hookeri* seems to prefer light shade. The latter grows in little, detached tufts of foliage, over which shine pink flowers on 6-inch stems. The color is supposed to be almost constantly a soft pink, but we had not a little variation in seedlings in our trials, and it is said to be known in a red form. *S. laciniata* is lovely in its near-red color, but it proved to be somewhat difficult to grow in this climate, and I doubt if it would be hardy north of Tennessee. Then, there is *S. ingrami*, on the order of *S. hookeri*, with enormous flowers of a deeper pink shade. It also appeared in our trials to be more amenable to garden ways and longer lived. All need a deep soil, well drained with stone chips and not too lean, though animal manures and chemical fertilizers are to be avoided. In our trials, a common scree soil to which a generous quantity of leaf mold had been added gave best results.

Three Worthy Eastern Catchflies

In the east there are at least three catchflies that deserve attention—*S. pennsylvanica*, *S. virginica* and *S. wherryi*. The last, having come into gardens within the past quarter of a century, has not had time to accumulate the hearsay reputation of being hard to manage which the other two have undeservedly acquired. The garden name of peat pink, which some searcher for a common name has attached to *S. pennsylvanica*, seems to have spread around the impression that the plant requires acid. It may need acid in a natural state, but some of the best garden plants that I have seen were grown in soil fit for lime-loving legumes. Then, too, I have seen splendid specimens in sun and in shade, in rich soil and lean. It long ago became apparent that the plant can be expected to do well in almost any soil that is well drained after it becomes established. And its brilliant display of pink during part of May and June is worth working for.

The fire pink, *S. virginica*, grows naturally in open woods, but seems to adjust itself to almost any situation in the garden, provided the soil has good drainage. In our trials, it always had a longer blooming period when given part shade and a soil full of leaf mold; so, that is what we always recommended to clients. At its best, that blooming period is a long one, lasting from June into August,

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Darwin Tulips

(In bags of 100)
 Top size—13 cm. and up

	Per 1000
Afterglow—Orange-salmon edge, 26 ins.	\$42.00
Allbright—Bright red, 24 ins.	38.00
Bartigon—Crimson-red, 24 ins.	38.00
Bleu Aimable—Violet-blue, 20 ins.	50.00
Clara Butt—Appleblossom-pink, 26 ins.	38.00
Charles Needham—Extra scarlet, 28 ins.	55.00
Cordell Hull—Red with white stripes	50.00
Farncombe Sanders—Rose-scarlet, 28 ins.	38.00
Pride of Haarlem—Large red, 28 ins.	38.00
Princess Elizabeth—Rose pink, 26 ins.	40.00
Prunus—Salmon-pink, 24 ins.	38.00
Queen of Night—Black, 28 ins.	38.00
Red Pitt—Scarlet, good forer, 26 ins.	42.00
Sunkist—Golden-yellow, 26 ins.	42.00
The Bishop—Violet-blue, 28 ins.	50.00
Zwanenburg—Pure white, 26 ins.	40.00
Rainbow Mixture—All colors	36.00

Cottage Tulips

Albino—Pure white, 22 ins.	\$42.00
Carrara—Purest white, 24 ins.	40.00
Dido—Orange-red with orange edge, 28 ins.	40.00
Golden Harvest—Pure, large yellow	38.00
Marjorie Bowen—Soft salmon-rose, 28 ins.	40.00
Mothers Day—Pale yellow, 28 ins.	38.00
Mrs. Moon—Lily-flowering, fine yellow	42.00
Princess Margaret Rose—Yellow, red edge	38.00
Pride of Holland—Yellow, bright red border	42.00
Rainbow—Fine Mixture	36.00

HYACINTHS

(Packed 50 in a bag)

L'Innocence, pure white	
Jan Bos, deep red	
Queen of the Pinks, large pink	
Pink Pearl, rose	
Bismarck, porcelain-blue	
King of the Blues, deep blue	
Queen of the Blues, light blue	
	Per 100
Top Size 18 to 19 cm.	\$12.50
Extra heading size 15 to 16 cm.	8.00

MUSCARI

	Per 1000
(Grape Hyacinths) Top size	\$16.00

Single Tulips

(In bags of 100)
 Top Size

	Per 1000
Couleur Cardinal—Dark red	\$45.00
General de Wet—Warm orange	45.00
Keizerskroon—Red with yellow border	60.00

Double Tulips

Electra—Wine-red	\$46.00
Mr. van der Hoef—Yellow	46.00
Orange Nassau—Orange	46.00
Peachblossom—Deep pink	46.00

Parrot Tulips

Top Size 13 cm. and up

Blue Parrot—Heliotrope	\$50.00
Fantasy—Clear pink with green stripes	40.00
Orange Favorite—Deep fragrant	38.00
Therese—Cherry-red (strong)	50.00
Red Champion—Immense, fiery red	60.00
Sunshine—Golden-yellow	60.00

Triumph Tulips

Top size 13 cm. and up

Alberio—Bright red, with orange	\$38.00
Bandoeng—Mahogany-red, yellow edge	40.00
Crater—Deep crimson-red	42.00
Crown Imperial—Crimson-red with yellow border	42.00
Edith Eddy—Red with white border	42.00
Elisabeth Evers—Dark rose	50.00
Elmus—Scarlet, creamy-white edge	45.00
Kansas—Pure white	40.00
Rhineland—Orange-yellow	38.00
Telescopium—Violet	40.00
Ursa Minor—Golden-yellow	50.00

Botanical Tulips

Red Emperor—Extra large, scarlet	\$75.00
Eichleri—Crimson-scarlet	38.00

DAFFODILS

Heavy Mother Bulbs

	Per 1000
Rembrandt—Large yellow—Imp. K.A.	\$ 80.00
King Alfred—Best yellow, frilled	80.00
Carlton—Large open cup	75.00
Golden Harvest—Very large yellow	100.00
Mrs. E. H. Krelage—White, creamy trumpet	80.00
Imperator—Large, pure white	105.00
Mixture for Naturalizing—D. N. and Round	50.00

CROCUS

	Per 1000
	9 to 10 cm. 8 to 9 cm.
Purpureus Grandiflorus—	
Large purple	\$22.00 \$18.00
Mont Blanc—Pure white	34.00 22.00
King of the Striped—White lilac	28.00 22.00
Mammoth Yellow—Golden-yellow	38.00 30.00
Mixture—All colors	26.00 22.00

DUTCH IRIS

	10 to 11 cm. 9 to 10 cm. 8 to 9 cm.
Wedgewood—Light blue	\$35.00 \$22.00 \$12.00
	8 to 9 cm. 7 to 8 cm. 6 to 7 cm.
Golden Harvest—Yellow	\$28.00 \$18.00 \$10.00
H. C. Van Vliet—Blue	28.00 18.00 10.00
Imperator—Deep blue	25.00 16.00 10.00
White Excelsior—White	28.00 20.00 12.00
Yellow Queen—Yellow	25.00 15.00

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and a brilliant one, with an unbroken succession of fiery, scarlet flowers.

The last of the list, *S. wherryi*, shows a close relationship to *S. pennsylvanica*, though it is an even better garden plant, being easier to satisfy and having larger flowers. It was always more floriferous in our trials and somewhat smothered under a canopy of deep, salmon-pink flowers during the usual blooming time of its better-known relative. It appears to have a local distribution among the limestone hills of Kentucky. In northern Michigan it did well in any well-drained situation that was not too dry. In fact all the catchflies mentioned in these notes are better for some irrigation during long, dry periods. All may easily be grown from seeds, preferably sown outdoors in autumn, and the eastern species, at least, may be grown from cuttings rubbed off with a heel as soon as new growths have been made after flowering.

Weeds

All will agree, no doubt, that a plant in the wrong place (an apt definition of a weed) in an ornamental planting detracts from its value. There are weeds and weeds, of course, some being more pernicious than others; yet, they are always with us. And I have a notion that not a little unprofitable efforts are expended in keeping some plant-growing establishments absolutely free of the pests. In fact, one incident comes to mind in which a nursery hoed itself into bankruptcy. It is necessary, to be sure, to keep the weeds from retarding production, and it is also apparent that the fight can be carried too far, especially when it goes to the point of mere fastidiousness. This is not meant as a defense of laziness, but rather to point out the happy medium between indolent and finical stages.

It reminds me that nature abhors an unoccupied area, as well as a vacuum, which recalls the recorded experience at Krakatau, the volcanic island in the Dutch East Indies. After the group had destroyed itself and four new islands were formed from the wreckage in 1883, naturalists agreed that all life, even down to the last seed and spore, had been exterminated. It was the consensus that if life ever existed on the islands again, it would have to come from lands as far away as 25 miles or more. Yet, in less than three years, ferns and mosses had already established themselves.

A dozen or more years ago, I saw
 [Continued on page 30]

NURSERYMEN REPORT ON "MIRACLE SPRAY" ORTHOCIDE Garden Fungicide

CASE HISTORIES*

Controls Black Spot on Roses

From Scappoose, Oregon: "ORTHOCIDE is the first fungicide that has the power to kill black spot right in the leaf."

From Texas: "Tests show a significant increase in weight of plants protected from black spot by ORTHOCIDE, and treated plants produced more blooms on first bloom count over untreated plants because of increased plant vigor due to black spot control."

Controls Damping Off

From Fort Smith, Arkansas: "An ORTHOCIDE program in our evergreen cuttings has been very beneficial. Out of 3500 Berkman Arborvitae cuttings I have not lost a cutting, whereas in the past I have lost from 30% to 40% due to damping off."

Controls green mold and fungus around greenhouses

From Magnolia, Arkansas: "We could see the difference the second day after we had applied ORTHOCIDE to the benches."

*Names on request. Write Owen R. Thorpe,
California Spray-Chemical Corp.
Richmond, California

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Home Office: Richmond, Calif.

Phoenix, Ariz.
Shreveport, La.
Maumee, Ohio
Elizabeth, N. J.
Medina, N. Y.

Controls all these plant diseases:

- Damp-off on cuttings such as azaleas, chrysanthemums, carnations.
- Rot diseases on many plants and seedlings when used as preplanting soil treatment.
- Rust, leaf spot, Botrytis Flower Blight on carnations, chrysanthemums, other flowers.
- Black spot on roses.
- Brown patch leaf spot and root rot on lawns and turf.
- Blight, leaf spot and downy mildew diseases on certain vegetable plants.
- Scab, leaf spot, brown rot on fruit and ornamental trees.
- Protects certain seeds and bulbs from damp-off and rot diseases.
- Powdery mildew on tuberous begonias.

ORTHOCIDE is pleasant to work with, having a low degree of toxicity to humans and warm-blooded animals. Available in several sizes.

On all chemicals read directions and cautions before use.

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All hardy, northern, field-grown stock with heavy

Due to an unusually favorable growing season, our plants have never been better. We have a good supply of many items, but limited as to others. This small specimen stock, and near specimen grades (just under specimen), constitute some of the best buys in the nursery trade. They are good for resale and mail-order business, potting up or heavy lining out in the field where they would rapidly grow into value. Most of these plants could also be used in landscaping, making it possible to plant large areas at the lowest possible cost. Furthermore, bare-root stock can be safely shipped and at minimum cost to the buyer.

Azalea hexe (Firefly Azalea) Per 100 Per 1000
Dwarf and compact. Foliage heavy, glossy, dark green. Flowers bright red.
6 to 9 ins., twice transplanted, B.R. specimens. \$49.00
9 to 12 ins., twice transplanted, B.R. specimens. 65.00

Azalea hinodegiri (Crimson Azalea)
Dwarf, very compact evergreen azalea. Heavy, glossy foliage. When in bloom, the plant is completely covered with bright, red flowers so that the foliage is hidden.
6 to 9 ins., twice transplanted, B.R. specimens. \$49.00
9 to 12 ins., twice transplanted, B.R. specimens. 65.00

Azalea mollis (Chinese Azalea)
Very hardy. Blooms before leafing—popular shades of salmon and orange.
9 to 12 ins., twice transplanted, B.R. specimens. \$61.00

Sherwood Orchid Azalea
Flowers are a clear lavender and completely cover the plant. Dwarf.
6 to 9 ins., twice transplanted, B.R. specimens. \$49.00
9 to 12 ins., twice transplanted, B.R. specimens. 65.00

Calluna vulgaris aurea (Golden Heather)
Possesses fine golden foliage that heads up in many of the stems in mosslike clusters.
9 to 12 ins., twice transplanted, B.R. specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. specimens. 61.00

Calluna vulgaris rubra (Red Heather)
The Red Heather has become one of the popular garden evergreens.
12 to 15 ins., twice transplanted, B.R. specimens. \$61.00

Chamaecyparis lawsoniana minima glauca (Little Blue Cypress)
A beautiful true dwarf conifer, dark and dense, bluish-green foliage, erect and slow growing.
9 to 12 ins., twice transplanted, B.R. specimens. \$86.00

Chamaecyparis lawsoniana (Lawson Cypress)
A conifer of most satisfying effect, both in stately habit of growth, dense limbs and graceful foliage. Not hardy in areas of extreme cold.
9 to 12 ins., twice transplanted, B.R. hedge grade. \$40.00 \$350.00

Chamaecyparis lawsoniana nestoides (Bird's Nest Cypress)
A beautiful, low-growing dwarf of very regular but spreading habit of growth attaining a spread of 6 ft. with a height of 2 ft.
6 to 9 ins., twice transplanted, B.R. specimens. \$49.00

Chamaecyparis lawsoniana stewarti (Wintergolden Cypress)
Rather slender golden tree. Foliage erect with pendulous tips toward the top of the tree. One of the most remarkable and most admired of conifers.
15 to 18 ins., twice transplanted, B.R. near specimens. \$40.00

Daboecia polifolia alba (White Irish Bell Heather)
Similar to the rosea, but having nodding flowers of purest white, resembling lily-of-the-valley in form and size.
9 to 12 ins., twice transplanted, B.R. specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. specimens. 61.00

Daboecia polifolia rosea (Pink Irish Bell Heather)
A splendid dwarf evergreen, dark green. The flowers are abundant, rosy-lavender and resemble little bells.
9 to 12 ins., twice transplanted, B.R. specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. specimens. 61.00

Erica carnea sherwoodi (Sherwood Creeping Heath)
Low growing. Blooms very profusely in late winter and spring. Flowers bright carmine-red.
6 to 9 ins., twice transplanted, B.R. specimens. \$41.00
9 to 12 ins., twice transplanted, B.R. specimens. 49.00

Erica hybrida (Dawn)
One of the attractive new evergreens. Foliage soft. The flowers are large, clustered pink bells.
6 to 9 ins., twice transplanted, B.R. specimens. \$41.00

Euonymus radicans argenteo marginatus (Silveredge Wintercreeper)
A variegated, low, procumbent shrub with often trailing and rooting or climbing branches. Very dense foliage.
9 to 12 ins., twice transplanted, B.R. near specimens. \$40.00

Juniperus chinensis pfitzeriana (Pfitzer Juniper)
This well-known juniper can scarcely be excelled for terrace and mass planting.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00

Juniperus chinensis sargentii (Sargent Juniper)
Bluish-green. It is a wide, low-growing, spreading juniper reaching a height of only one foot and a spread of 10 to 12 ft.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00

Juniperus horizontalis (Bar Harbor Blue Creeping Juniper)
Procumbent, with trailing, spreading branches. Foliage is changing steel-blue.
9 to 12 ins., twice transplanted, B.R. specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. near specimens. 65.00

Juniperus horizontalis (Bar Harbor Green Creeping Juniper)
This is a lovely green form. Procumbent and trailing.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. near specimens. 65.00

Juniperus horizontalis glauca (Blue Creeping Juniper)
Very similar to the Bar Harbor Blue with steel-blue foliage throughout the year.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. near specimens. 65.00

Juniperus horizontalis plumosa (Andorra Juniper)
Its dense matted foliage and spreading habit of growth make it a ground cover of unsurpassed merit. The plants here listed are the bluish-green type.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00
12 to 15 ins., twice transplanted, B.R. near specimens. 65.00

Juniperus sabina (Savin Juniper)
A semispreading, many branched conifer growing to a height of 4 ft., very hardy and with good green color at all seasons of the year.
9 to 12 ins., twice transplanted, B.R. near specimens. \$49.00

Juniperus sabina tamariscifolia (Tamarix Savin Juniper)
Color a bright, cheerful bluish-green throughout the year, pyrametrical and compact.
9 to 12 ins., twice transplanted, B.R. specimens. \$65.00

BARE-ROOT EVERGREENS

heavy vigorous root system. Ready for fall delivery.

	Per 100	Per 1000		Per 100	Per 1000
<i>Juniperus sabina variegata</i> (Hoarfrost Savin Juniper) Prostrate Juniper having a delicate variegation throughout giving the appearance of having been sprinkled with frost. Hardy and long-lived. 6 to 12 ins., twice transplanted, B.R. near specimens \$49.00			<i>Pinus mughus compacta</i> (Mugho Pine) A dense, stout dwarf evergreen of unquestionable hardiness. 6 to 9 ins., twice transplanted, B.R. specimens. \$61.00 9 to 12 ins., twice transplanted, B.R. specimens. 73.00		\$657.00
<i>Juniperus sabina vonehron</i> (Von Ehron Juniper) Has a low, bushy, vase-like habit of growing somewhat like Savin Juniper. 9 to 12 ins., twice transplanted, B.R. near specimens \$49.00		\$441.00	<i>Rhododendron maximum</i> (Rosebay Rhododendron) Large, rapid-growing shrub. Leaves often 12 ins. long. Flowers usually rose colored in large clusters. 9 to 12 ins., twice transplanted, B.R. near specimens \$49.00		\$441.00
<i>Juniperus squamata mayeri</i> (Meyer Juniper) A Juniper of marked individuality. Has a dense, heavy growth. Foliage is of a most fascinating deep blue color and different from most plants. 9 to 12 ins., twice transplanted, B.R. near specimens \$49.00		\$441.00	<i>Taxus baccata erecta</i> (Broom Yew) A columnar form of the English Yew of fine erect form of growth. Compact. 12 to 15 ins., twice transplanted, B.R. hedge grade \$100.00		\$ 900.00
<i>Juniperus virginiana tripartita</i> (Fountain Juniper) The name describes fairly well the form of growth, it being semi-upright but spreading. 6 to 9 ins., twice transplanted, B.R. near specimens \$41.00		\$369.00	15 to 18 ins., twice transplanted, B.R. hedge grade 125.00		1125.00
9 to 12 ins., twice transplanted, B.R. near specimens 49.00		441.00	<i>Thuja occidentalis</i> (American Arborvitae) An old, standard favorite. Grows in compact form, narrow pyramid in shape. 12 to 15 ins., twice transplanted, B.R. hedge grade \$36.00		\$324.00
12 to 15 ins., twice transplanted, B.R. near specimens 65.00			15 to 18 ins., twice transplanted, B.R. hedge grade 41.00		369.00
<i>Leucocerasus zabeliana</i> (Zabel Laurel) Grows 6 to 8 ft., wide spreading and is covered in the spring of the year with large spikes of white, scented flowers. 12 to 15 ins., twice transplanted, B.R. near specimens \$55.00			18 to 24 ins., twice transplanted, B.R. hedge grade 49.00		441.00
<i>Abocedrus decurrens</i> (Western Incense Cedar) A shapely pyramid in form, with fine, fanlike foliage that is dense and a beautiful glossy green. 18 to 24 ins., twice transplanted, B.R. hedge grade \$49.00		\$441.00	<i>Thuja occidentalis pyramidalis</i> (American Pyramidal Arborvitae) A most desirable arborvitae of narrow, columnar growth, dense and compact without pruning. 18 to 24 ins., twice transplanted, B.R. hedge grade \$49.00		\$441.00
<i>Nandina domestica</i> (Nandina) Delicate foliage, large clusters of bright red berries. Leaves turn in autumn to attractive shades of red, bronze and scarlet. 15 to 18 ins., twice transplanted, B.R. specimens. \$74.00			2 to 3 ft., twice transplanted, B.R. hedge grade 73.00		657.00
<i>Picea excelsa mucronata</i> (Dwarf Norway Spruce) Dense, dwarf conifer rounded in shape when young. 6 to 9 ins., twice transplanted, B.R. specimens. \$65.00			<i>Tsuga mertensiana</i> (Mountain Hemlock) This magnificent conifer is native of the Cascade mountains. 12 to 15 ins., twice transplanted, B.R. near specimens \$49.00		\$441.00
<i>Picea excelsa nidiformis</i> (Nest Spruce) A dwarf conifer with exceedingly compact dark green foliage. 6 to 9 ins., twice transplanted, B.R. specimens. \$65.00			15 to 18 ins., twice transplanted, B.R. near specimens 65.00		585.00
<i>Picea pungens</i> (Colorado Spruce) Native Wyoming to Colorado and Utah. A very handsome and a very hardy tree. 12 to 15 ins., twice transplanted, B.R. specimens. \$58.00		\$522.00	<i>Veronica cupressoides nana</i> A very dense dwarf growing into a shapely 3-ft. globe without pruning. Also desirable for its bright green plumelike foliage. 9 to 12 ins., twice transplanted, B.R. specimens. \$46.00		

Expert help and methods employed in growing, handling and packing make it possible for us to ship nursery stock to all points across in the continent with uniformly good results.

No packing charge on B.R. stock. Prices quoted on B.R. stock are F.O.B. Portland, Ore.

Twenty-five per cent will reserve stock for fall delivery. 25 plants at the 100 rate, 250 plants at the 1000 rate.

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in 6 most popular varieties:

Bartigon, bright red.
Golden Harvest, yellow.

Dillenburg, salmon-orange.
Princess Elizabeth, pink.

The Black Tulip, darkest shade.
White Queen, pure white.

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MARKUP — 45% to 55% (based on selling price).

Box 9 1/4 x 6 x 20 ins. Takes only 195 square inches of counter space.

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SELLING SEASON — September to December.

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THE WILLIS NURSERY CO.

a review in Nature magazine, an English publication, of an article by Dr. van Leeuwen, a Dutch naturalist, who gave this report: Of the 271 species of plants which covered the islands at that date, including trees, shrubs, herbs, grasses, etc., not more than 6 per cent was taken there by man, he stated, and the balance arrived on the wind and ocean currents or was carried by birds. In the face of all that, how can we expect to maintain a spotless establishment when we are surrounded on all sides by plants with efficient methods of dispersal?

Loosestrifes

An eastern reader, who grows many perennials for the cut-flower trade, asks for an opinion on loosestrifes, in view of the fact that his ground is not so moist as these plants require. It is true, no doubt, that loosestrifes give best results in a moist soil, but the insistence in practically all literature that such growing conditions are a necessary part of their culture is not entirely founded on facts. It has, however, kept many a gardener from growing them. I recall vividly a series of trials of these plants in this garden in the early 1930's, which happened to fall in a period of dry summers, during

which I became fully convinced that they can survive on a lot less moisture than is generally supposed to be their need. I just now referred to my notes for 1936 and found the following in an early September note:

During the hottest part of August, *Lythrum salicaria roseum* and *Perry's Variety* gave excellent cut material at a time when many other August bloomers were practically worthless. All they received in the way of added moisture was an occasional sprinkling from the hose. *Lythrums* need good soil, though, for them to perform that way in a naturally dry garden. These loosestrifes, *L. virgatum* and some of its varieties, as well as *L. salicaria*, could well be made more of by growers of cut flowers. Many of the named varieties are not available in this country, but experiments showed here that seedlings of some kinds, including *Lady Sackville* and *Brilliant*, often show improvements over those commonly grown.

Of modern named varieties generally available in this country, *Morden's Pink* would be my choice from a cut-flower standpoint. It does remarkably well in ordinary border soil, especially if given some shade in lieu of the moisture it needs, and

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produces literally dozens of spikes of deep pink flowers on each 3-foot plant, during most of the summer. I have not seen it, but have excellent reports on the variety Brightness. It is said to reach two feet, or a little more, in height, with a blooming period covering July and part of August, when it produces spikes of large flowers of a brighter shade of pink. Dropmore Purple has somewhat the growing habit of Morden's Pink, but the color is what the books call fuchsia purple, a pleasing color in the summer garden and not to be ignored in modern flower arrangements. For garden decorations, I have seen nothing to equal the new English variety, Robert. It is of somewhat dwarf growth, making a bush of 18 inches and producing many spikes of bright rosy pink (pink with a glowing reddish shading, according to the English description) in summer.

Oenothera Californica

I am not sure that I can help the recent inquirers about *Oenothera californica* for the simple reason that I am not sure whether I ever had the plant. Hortus mentions two distinct plants which may bear the name, the true one being a 20-inch perennial, clothed in narrow oblanceolate leaves, dentate or pinnatifid, and 2-inch, white flowers, turning to pink. The other one, which is rightly *O. leptocarpa*, according to Hortus, is an erect annual with small yellow or orange flowers, frequently red-spotted inside. Now I am ready to tell about the plant that we had several years ago as *O. californica*. It proved to be of annual duration here in northern Michigan, though it was sent to me as a biennial, and that answered one complaint heard among gardeners that evening primroses are not wanted because they spread from the root. This little annual has not time in its brief life's span to do any spreading. And it was not weedy in our trials; rather, its large (to three inches across) flowers, opening white, yellowish toward the center, turning to deep pink and finally bright red, on 4-inch stems, made it an attractive plant during its long blooming period. It grows easily in a dry, sunny spot. Sorry that I cannot be more specific in answering the inquiry. Specific statements about evening primroses are not often possible, even from a botanist, which I am not.

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2 1/4-in. pots, except where noted. *Bed-grown.

Abelia	100	1000
Edward Goucher (heavy)	\$0.17 1/2	\$0.15
Edward Goucher (flat-grown)	.07	.06
Azalea		
Lady Lilac, 6 to 8 ins.	.15	.12 1/2
Poukhanensis, 6 to 8 ins.	.15	.12 1/2
Cotoneaster		
Divaricata	.17 1/2	.15
Francheti	.20	.18 1/2
Repens	.17 1/2	.15
Salicifolia	.20	.18 1/2

For Fall Shipment

Deutzia Gracilis, 6 to 8 ins.	.12 1/2	.10
Deutzia Gracilis Rosea, 6 to 8 ins.	.12 1/2	.10
(Extra-nice plants)		

*Euonymus Patens Sieboldianus, 6 to 8 ins.	.15	.12 1/2
Hydrangea Otaksa (Special)	.12 1/2	.10
Ilex		
Cassine Angustifolia	.20	.18 1/2
Cassine Myrtifolia	.20	.18 1/2
Cornuta Burfordi	.22 1/2	.20
Glabra	.20	.18 1/2
Opaca (cuttings from choice berry plants)	.45	.40
Opaca East Palatka	.30	.27 1/2
Vomitoria	.25	.22 1/2
Juniperus		
Pfitzeriana	.20	.18 1/2
Sylvestris	.20	.18 1/2
Kolkwitzia (Beauty Bush)	.17 1/2	.15
Prunus Laurocerasus		
Officinalis (English Laurel)	.20	.18

Ready for Canning or Field Planting

Pyracantha Lalandi	.17 1/2	.15
Pyracantha Serrata (a good red)	.20	.18 1/2
Photinia Glabra	.20	.18 1/2
Retinospora Cyano Viridis (Beautiful blue color— an old plant making new stand—something you should have.)	.22 1/2	.20

Ready for Landscape Work

Hedera		
Helix (English Ivy)	.15	.12 1/2
Baltica	.17 1/2	.15
Self-branching	.17 1/2	.15
Star Leaf	.17 1/2	.15

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This Business Of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

SOME HARDY CAMELLIAS

I have commented several times on the popularity of the *Camellia sasanqua* on the eastern shore area and around Washington, D. C. This rather widespread planting is going to give them a good test.

Just recently Dr. P. W. Zimmerman of the Boyce Thompson Institute sent me a reprint of an article he wrote for the "1953 American *Camellia* Yearbook," entitled, "Hardy *Camellias* in the Vicinity of New York City." The first surprise in the article is that, not only is he testing *camellias* much farther north than our section, but also that his hardy varieties are varieties of *Camellia japonica*. The next surprise is that he has been working with them since 1927, which means that they went through the winter of 1934, although they were partly damaged. The low that year was minus 20 degrees Fahrenheit.

His original cuttings came from the University of Washington, Seattle, Wash. This was a hardy and unnamed variety now called "Z." Another variety growing on the institute grounds is *Camellia japonica elegans*, of which he has approximately 100 plants which came from a garden at Mount Kisco, N. Y. This variety produces variegated flowers.

He received a plant of the variety, Dr. W. G. Lee, from Mr. and Mrs. William T. Wood, *camellia* authorities, of Macon, Ga., which has proved a valuable addition to his collection. It sets seeds readily, can be crossed with other varieties and has produced several hundred seedlings, most of which show a tendency to be hardy.

There are at least, he states, six plantings of *camellias* on the institute grounds. One planted in 1950 has gone through three comparatively mild winters, but winters with practically no snow. Certain other evergreens showed more injury in 1951 than they had in previous colder winters. Of the *camellias*, some varieties showed winter injury on the leaves, but they have fully recovered. He believes some of the injury was due to the plants' not

having been completely established. The plants in this test now range from two to five feet. They flowered profusely in the springs of 1952 and 1953. The principal varieties in this test are variety "Z," *Elegans*, *Kumasaka* (Lady Marion), *Madame Lebois*, *Sara Frost*, *Dixie*, *Comte de Gomer*, four unknown varieties and several seedlings of Dr. W. G. Lee.

He concludes from this planting that *camellias* take at least two years to become well established when planted out of doors, and even longer if the root system is pot-bound.

In his article Dr. Zimmerman lists some new seedlings of his crossing that are promising. Among them are a red seedling, now named Mrs. William T. Wood; a white seedling of *Comte de Gomer*, named, tentatively, *Selena*, and a dark red one with small flowers, named Mrs. William G. Gerow. One of his best, number 143, has double red flowers and attractive stamens. It flowers profusely and is a vigorous grower. Another vigorous grower is number 258 with good, deep pink flowers.

The flowers on these seedlings vary from single to completely double, and, to his pleasure, he has found no unattractive *camellia* flowers on any of the seedlings, although some are better than others.

Dr. Zimmerman has not only planted his test plants extensively on the Boyce Thompson Institute grounds and his own home grounds, but also on the property of a number of amateur growers in the Yonkers area, so that he should soon be able to make safe predictions as to

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Platanus Acerifolia, 2 to 2 1/2-in. cal., 2 1/2 to 3-in. cal. and 3 to 3 1/2-in. cal.

Acer Platanoides, 2 to 2 1/2-in. cal. and 4 to 5-in. cal.

Pinus Nigra, 5 to 6 ft.

Pinus Strobus, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.

Pinus Ricinosa, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.

Melus, in variety, 6 to 8 ft. and 8 to 10 ft.

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camellia hardiness in that area. The past spring he kindly sent me some cuttings of three varieties. These we have rooted and potted up so that now we are looking forward to growing and flowering them. If they are hardy in the New York city area, these same varieties should grow wonderfully on the eastern shore.

Dr. Zimmerman concludes his article with the statement, "Since I have had camellias in my garden since 1928 and some on the grounds of the Boyce Thompson Institute since 1934, I am fully convinced that, with a little more selection and care in planting, hardy camellias will be a reality."

NEW JERSEY FIELD TRIP

Sixty New Jersey nursery firms took part in a field trip recently through the Princeton-Pennington area to study the landscaping and horticultural highlights of the region. Stanley MacIntosh, Turner Bros. Nursery, West Long Branch, N. J., is founder and chairman of the better-planning committee of the New Jersey Nurserymen's Association, which sponsored the trip. The purpose of the committee is to educate and encourage nurserymen to do better landscaping work. Each year they review a different section of the state.

The outstanding feature of the event was a collection of espaliered plants which were seen at Princeton University. Among the rare plants were fragrant honeysuckle, various magnolias and climbing hydrangeas.

CONTRACTORS FORM GROUP

A new association, entitled American Association of Landscape Contractors, has been formed. The charter membership of this association consists of landscape contractors in the New York area. Officers of the association are president, Harris Grand, New York city, N. Y., and secretary-treasurer, Robert F. Greene, Meadow Brook Nurseries, Englewood, N. J.

A NEW nursery is being started by Theodore J. Boulais, South Hadley Falls, Mass. Rooting and propagating evergreens will be the main feature of the nursery.

ONE of the most convenient and accessible points at Charlotte, N. C., adjacent to a supermarket, was chosen as the site of a new garden shop, the Daniels Garden Center.

QUALITY EVERGREENS

BROAD-LEAVED EVERGREENS

Abelia Grandiflora
Buxus Harlandi
Buxus Sempervirens
Cotoneaster Francheti
Cotoneaster Horizontalis
Elaeagnus Fruitlandi
Elaeagnus Simoni
Euonymus Coloratus
Euonymus Fortunei Erectus
(small leaf)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
(heavily sheared)
Ilex Vomitoria
(well sheared)
Pride of Houston
Jasminum Floridum
Laurel Cherry
(well sheared)
Ligustrum Lucidum
(Griffing type)
Ligustrum Lucidum
(Black Wax)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

CONIFERS

Arborvitae, Or. Baker
Arborvitae, Or. Berckmans
(Aurea Nana)
Arborvitae, Or. Blue Cone
(very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland
(Green Berckmans)

CONIFERS cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Pyramidalis
Arborvitae, Occ. Nigra
(Dark Green)
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi
(staked and sheared)
Juniperus Fastigiata
Juniperus Hibernica
(Irish)
Juniperus Pfitzeriana
Juniperus Pfitzeriana Compacta
Juniper Pfitzeriana Aurea
Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron
(staked and sheared)
Juniperus Scopulorum
Juniperus Sylvestris
(Chinensis Femina)
Juniperus Virginiana Burki
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Mughus
Pinus Nigra
(Austrian Pine)
Pinus Sylvestris
(Scotch Pine)

CANNED STOCK

Abelia Grandiflora
Gardenia Fortunei
Gardenia Mystery
Ilex Burfordi
Ilex Convexa
Ilex Rotundifolia
Ilex Helleri
Magnolia Grandiflora
Pyracantha Formosana
(light)
Pyracantha Lalandi
(light)
Crape Myrtle

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Phone 4352

BARGAINS In Lining-out Stock

We have not raised the price of most of our small plants in years, but the price of landscape stock is steadily advancing. Plant some of our items now and make yourself some real money.

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.

Per 100
4 to 6 ins., T. \$15.00
6 to 8 ins., T. 20.00

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwoodlike leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

Each
6 to 8 ins., 2-yr., T. 15c
8 to 10 ins., 2-yr., T. 20c

ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

Per 100
8 to 12 ins., TT. \$15.00
12 to 15 ins., T. 25.00

AZALEA KURUME

Very hardy. Will stand 19 degrees below zero. Gives a great variety of color and types, from choice whites to orchids, deepest pinks and reds.

2-yr. T. 4 to 8 ins., \$15.00 per 100.

JAPANESE BOXWOOD

Buxus japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T. \$10.00 per 100.

Send for list of rare plants.

ALANWOLD NURSERY
NESHAMINY, Bucks Co., PA.

COVER ILLUSTRATION

Thuja Plicata Atrovirens

While the dark green giant arborvitae is less well known and not as extensively used in ornamental plantings as many of the arborvitae, it is, nevertheless, one of the best of the large types.

Thuja plicata atrovirens is pyramidal in shape, reaching a height of 30 feet or more, with rather stiff branches and heavy foliage. The leaves are dark green and somewhat glossy.

Thuja plicata, the giant arborvitae, is native of the territory extending from Alaska to northern California and Montana. It was introduced into cultivation in 1853.

Concerning the origin of the name, the generic name, *Thuja*, is the ancient Greek name; the species name, *plicata*, refers to the plicate or plaited arrangement of the leaves, and the variety name, *atrovirens*, means dark green, referring to the color of the leaves.

The dark green giant arborvitae does well in average soil and appears to stand drought better than most of the varieties of the common eastern arborvitae. It does well in sun or partial shade and transplants readily. It is hardy in zone 5 of Rehder. While it is susceptible to the common pests of the arborvitae, such as bagworm and red spider mite, it seems to be less so than most of the eastern arborvitae types. Propagation is by cuttings.

Thuja plicata atrovirens can be used for screen and border planting, corner plantings on large buildings, as specimens and for hedges. It should be used more extensively.

L. C. C.

LAW SELLS JEWELL STOCK

Announcement was made recently at Lake City, Minn., by Ken Law, manager of Jewell Nurseries, Inc., for the past 15 years, that he has sold his minority stockholdings in the company and will serve only in an advisory capacity until the end of 1954.

Mr. Law stated that his future plans are not definite yet, but that he and his sons may purchase a nursery or floral-nursery business which could be managed as a family enterprise.

JAMES H. WILSON, Peters & Wilson Nursery, Millbrae, Calif., has been named a fire commissioner at Burlingame, Calif.

BIG

We have one of the largest available supplies of big specimen material, including:

ILEX BUXIFOLIA

- TSUGA CANADENSIS
- GINKGO BILOBA
- ILEX OPACA
- AZALEA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA
- HYBRID RHODODENDRON

For 36 years
one of America's
leading nurseries



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NURSERIES
Cockeysville, Md.

"A friendly, efficient sales service"

E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247
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Representing

Adams Nursery, Inc.
Bristol Nurseries, Inc.
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A. N. Pierson, Inc.
Sunny Border, Inc.

Please refer to our ad
in the July 15 issue
for choice liners.

HEMLOCKS

B&B

Per 10 Per 100
2 to 3 ft. \$4.25 \$4.00
3 to 4 ft. 5.50 5.00

LINERS

Per 100 Per 1000
4-yr., T. \$45.00 \$400.00
6-yr., TT. 75.00 650.00

LEGHORN'S EVERGREEN NURSERIES
Geer St. CROMWELL, CONN.

20 MILLION TREES A YEAR?

Complete line of Nursery Stock—Evergreen Seedlings and Transplants, Hardwood Seedlings, Fruit, Shade and Nut Trees, Roses, Berries, Illicium and Rhododendrons.

MUSSER FORESTS, Inc.
Indiana, Pa.

TULSA, OKLA., NOTES

Midsummer nursery business at Tulsa was at a virtual standstill for a time because of the drought which has plagued the southwest for the past two years and because mechanical troubles banned the use of city water for shrubs or lawns. There was a prospect of the abatement of the dry weather in April and May, when enough rain fell to reach the subsoil for the first time since 1952. The result was a splendid new growth on trees and shrubs. When the excessively hot weather came in July, the ground was still moist, but several weeks of daily temperatures over 100 degrees Fahrenheit, which reached as high as 112 degrees F., burned the tender growths that had not had time to harden. Broad-leaved evergreens were hurt worst. Since then, showers have been too scanty to help. Weather conditions put such a strain on the city water distribution system that watering was banned, first from 5 a. m. to 11 p. m., and later, a breakdown at the pumping plant ended watering altogether for a week. Repairs were rushed, and now both nurserymen and householders can water plants on alternate days, except from 5 to 10 p. m. Nurserymen who have their own wells have, of course, been in a more favorable position all along.

After attending the convention of the American Association of Nurserymen, Mario Sanseverino, O. K. Gardens & Nursery, took a business trip through Wisconsin and returned home through Iowa. Earlier this summer, Mr. and Mrs. Sanseverino went on an extended business trip to California, Colorado and Utah.

The Lakeview Nursery at 4112 N. Delaware avenue was started late in 1953 by V. C. Martin. It is engaged in a general nursery and landscape business.

Another new firm, launched in the spring of this year, is the Tulsa Landscape Nursery, 1402 East 55th place.

Clayton Cox and his son Dwayne, of the Cox Nursery, have returned from a buying trip to southern Oklahoma and the Dallas and Fort Worth area.

Cotner's Nursery has constructed a new 20x90-foot greenhouse, to be used for propagating. R. W. C.

PROF. KENNETH POST, Cornell University, Ithaca, N. Y., recently visited England as one stop on his European tour and visited well-known horticultural establishments and educational institutions.

BOOKS ON LANDSCAPE SUBJECTS

COMPLETE HOME LANDSCAPE AND GARDEN GUIDE

By R. P. Korbobo and E. L. D. Seymour

Shows how to plan and do all your landscape gardening the easiest and most economical way. Instructions in landscape sketching—how to make garden plans and design your property. Includes gardening, grading, soils, drives and walks, foundation plantings, lawns, outdoor living areas, shrubs and flowers, ground covers, tree care and maintenance and regional planting guide. 368 p., hundreds of pictures, plans and diagrams. (1954).

Price, \$2.95, postpaid.

NEW DESIGN OF SMALL PROPERTIES, by M. E. Bottomley (\$4.00).

Each type of design—the formal, informal, odd lots and modern—treated separately and illustrated with typical layout plans, adapted to small property limitations. Also, chapters on garden design and planting composition. 174 pages, illus.

PLANTING DESIGN, by Florence Bell Robinson (\$3.00).

Discusses color and its use, texture, art of design, groupings and arrangements; ecological factors, such as soil, climate, light and drainage; designing plantings around buildings and public plantings. 215 pages, illustrated.

PALETTE OF PLANTS, by Florence B. Robinson (\$3.00).

Sequel to "Planting Design." Chapters on plants in the landscape, trees, shrubs, conifers, grass, flowers, hybrids and exotics, roses, rock and water gardens, roof gardens, plantings for cemeteries. 214 pages, illustrated.

HOW TO BEAUTIFY AND IMPROVE YOUR HOME GROUND, by Henry B. Aul (\$3.50).

Provides plans, sketches, arrangements, terrace ideas, work and play centers, vegetable, flower, shrub and tree plantings. Modern ideas. 155 plans, drawings and illustrations. 320 pages.

HOW TO PLANT YOUR HOME GROUND, by H. B. Aul (\$3.50).

Trees, shrubs, ground covers, annuals, bulbs, etc. What to plant, how to plant and where to plant around the house, in the garden and on home grounds. 383 pages, illustrated.

HOW TO LANDSCAPE YOUR GROUNDS, by L. R. Johnson (\$3.50).

Planting plans and keys adapted to various sections of the country. Selected lists of shrubs, acid soil plants, trees and vines. 272 pages. 2nd edition, revised. 152 illustrations.

LANDSCAPING YOUR HOME (Sunset Magazine) (\$1.00).

A special selection of many tested ideas for home landscaping. 250 illustrations. Paper-bound.

65 PRACTICAL GARDEN PLANS, by John Elliott (\$1.00).

Plans for suburban, country and city homes, including crowded areas in large cities, back yards, penthouses, outdoor living and dining rooms, etc. A wide range of plans applicable to many conditions and situations. 48 pages, paper-bound.

These books and others on horticultural subjects are available at the publishers' price through the

AMERICAN NURSERYMAN

343 S. Dearborn St.
Chicago 4, Ill.

ILEX CRENATA, Stokes Variety**PLANT PATENT NO. 887**

TRADE MARK
Ilex Crenata Stokes Variety
 Warren E. Stokes
 Plant Patent No. 887

We offer for fall trade a substantial quantity of this popular variety.
 12 to 15 ins., XXX, compact plants, B&B. \$1.50 any quantity at the nursery. Wholesale only.

Available through one of our growers:
 4000 transplants in bands.

Inquiries on this item will be relayed to producer.

Member
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WARREN E. STOKES
R. D. 6 BUTLER, PA.

Originator and introducer of Ilex Crenata, Stokes Variety.

DECISION IN MUSSER CASE

The Pennsylvania labor relations board, in a reversal of a previous position, has entered its final decision and order relating to a determination of the agricultural or non-agricultural status of certain employees of the Musser Forests, Inc., Indiana, Pa. Certain employees were engaged in the sorting, grading and packing of seedlings in a packing house. The original decision of the board was that these employees were not agricultural workers. The final decision reversed this position, and employees so engaged in sorting, grading and packaging of tree seedlings were held to be agricultural employees within the meaning of the Pennsylvania labor relations act and cannot be separated as to job classifications from the other general nursery employees.

Charges of unfair labor practices were dismissed for want of jurisdiction. The case can be appealed to the courts, but the latest information is that the decision will not be carried further.

SONS ASSUME BUSINESS

W. H. Eddy, Sr., former proprietor of Howard Lake & Victor Nurseries (the Howard Lake Nursery), Howard Lake, Minn., turned over his business to his two sons, Edwin D. and William H. Eddy, Jr., on August 4.

W. H. Eddy, Sr., now 85 years of age but in good health, will assist his sons in operation of the nursery, but has stated that he thinks it time to place the heavy responsibilities on his sons' shoulders.

NUZUM NURSERIES, Boulder, Colo., was awarded a \$7,732 contract on its low bid to landscape the national bureau of standards laboratory at Boulder.

ROSA MULTIFLORA JAPONICA

Hardy northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and understock. We select our seeds for trueness to type. The plants are excellently grown.

Taking Orders Now for Fall, 1954, and Spring, 1955

BROOKVILLE NURSERIES
 GLEN HEAD, N. Y.

FALL SURPLUS

Choice Stock		Per 100
40 Amelanchier Grandiflora, 2 to 3 ft.	.....	\$150.00
25 Azalea Canadensis, 18 to 24 ins.	.....	250.00
50 Beech, Tricolor, 2 to 3 ft.	.....	475.00
125 Cedrus Atlantica Glauca, 12 to 18 ins.	.....	150.00
100 Cedrus Libani, hardy, 12 to 18 ins.	.....	150.00
200 Cladrastis Lutea, 2 ft., XX.	.....	75.00
100 Dogwood, Pink, 2 to 3 ft.	.....	225.00
100 Euonymus Alatus Compactus, 2 ft.	.....	150.00
75 Hornbeam, Fastigiata, 3 to 4 ft.	.....	475.00
100 Ilex Crenata, 15 to 18 ins.	.....	150.00
100 Ilex Crenata Helleri, 10 to 12 ins.	.....	175.00
20 Linden, Silver, 3 to 4 ft.	.....	300.00
500 Maple, Japanese Red, finest color, 1-yr., 8.	.....	12.00
100 Pieris Japonica, 15 to 18 ins.	.....	200.00
40 Rhododendron Carolinianum, 18 to 24 ins.	.....	300.00
200 Viburnum Carlesii, 2-yr., X.	.....	35.00
25 Viburnum Fragrans, 2 to 3 ft.	.....	275.00

Cash with order; 25 at 100 rate.

BRIMFIELD GARDENS NURSERY
 245 Brimfield Rd.
 WETHERSFIELD 9, CONN.

BENCH CUTTINGS

	Per 100	Per 1000
Juniper, Irish	.....	\$10.00 \$ 90.00
Retinospora Pisifera	.....
Pumosa	10.00	90.00
Taxus Cuspidata Spreading	10.00	90.00
Taxus Cuspidata Upright, tips	11.00	100.00
Taxus Media	10.00	90.00
Taxus Media Brevifolia	10.00	90.00
Taxus Media Brevifolia, Nama	10.00	90.00
Taxus Media Hatfieldi	9.00	80.00
Taxus Media Hicksi	10.00	90.00
Taxus Media Densifolia	10.00	90.00
Thuja Occidentalis Compacta	12.50	110.00
Thuja Occidentalis Globosa	.....
Nova	12.50	110.00
Thuja Occidentalis Nigra	11.00	100.00
Thuja Occidentalis Parsons Globe	10.00	90.00

BROUWER'S NURSERIES

Box 25 NEW LONDON, CONN.

EVERGREENS

300 acres of choice Evergreens
 ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
 ROCKY HILL, CONN.

Choice Varieties of Lining-out Stock.
 Write for our price list.

PALLACK BROS. NURSERIES, INC.
 Route 19, 31 mi. north of Pittsburgh, Pa.
 Ph.: Zelienople 789
 R.F.D. 1 HARMONY, PA.

FOR 52 YEARS

Our business has been growing

Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items

BOBBINK NURSERIES, INC.
 586 Paterson Ave.
 E. RUTHERFORD, N. J.

A General Line of
FRUIT and ORNAMENTAL
TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
 BOX 3 SELBYVILLE, DEL.

OBITUARY

Dr. David Fairchild

Dr. David Fairchild, organizer of the office of plant introductions of the United States Department of Agriculture, died August 6, at his home, the Kampong, Miami, Fla., at the age of 85.

Dr. Fairchild went to work for the United States Department of Agriculture in 1889, before he was 20 years old, leaving it to further his education and returning again five years later. He became head of the office of plant introduction in 1904 and remained in that position until his retirement in 1928. Under Dr. Fairchild's direction more than 75,000 species of plants—ornamentals, field crops and fruit crops—were introduced, many of them obtained by Dr. Fairchild on his many expeditions to tropical countries.

He was also well known as the author of several books. One, "Exploring for Plants," inspired a reader to build Fairchild Tropical Garden, an 85-acre public botanical garden near Dr. Fairchild's home. His best known book is "The World Was My Garden," published in 1938. "Garden Islands of the Great East" and "The World Grows Around My Door" are similar books of travel.

Dr. Fairchild was born at Lansing, Mich., in 1869. He obtained a bachelor of science degree from Kansas State College, Manhattan, Kan., where his father was president. In 1905, he married Marian Bell, the daughter of Alexander Graham Bell, inventor of the telephone. Besides his widow, Dr. Fairchild is survived by two daughters, Mrs. Marston Bates and Mrs. Leonard Muller, and a son, Dr. Alexander Graham Bell Fairchild, Panama City, Panama.

Jan Dykhuis

Jan Dykhuis, founder and senior partner of Felix & Dykhuis Nurseries, Boskoop, Holland, died unexpectedly at his home, August 1. He was 74 years old.

Mr. Dykhuis was active in the nursery business for more than 50 years and was well-known in the trade. Before 1950 he made annual visits to the United States.

He is survived by his widow, two sons and a daughter.

JOHN E. WEBER, controller, A. N. Pierson, Inc., nurserymen of Cromwell, Conn., has been renamed a director of the Hartford Control of the Controllers Institute of America.

15,000

SPREADING AND UPRIGHT YEW

Land Must Be Cleared to Make Room for New Liners

TAXUS CUSPIDATA CAPITATA

(Japanese Upright Yew)

18 to 24 in., regular	\$2.50
2 to 2 1/2 ft., slender	2.50
2 to 2 1/2 ft., regular	2.75
2 1/2 to 3 ft., slender	2.75
2 1/2 to 3 ft., regular	3.50
3 to 3 1/2 ft., slender	3.50
3 to 3 1/2 ft., regular	4.00
3 1/2 to 4 ft., slender	4.75
3 1/2 to 4 ft., regular	6.00
4 to 4 1/2 ft., slender	6.75
4 to 4 1/2 ft., regular	8.00

TAXUS CUSPIDATA

(Japanese Spreading Yew)

15 to 18 in.	\$2.50
18 to 24 in.	3.00

TAXUS HICKSI

15 to 18 in.	\$2.25
18 to 24 in.	2.75
2 to 2 1/2 ft.	3.25

All stock has been treated and can be shipped outside the Beetle zone.

Prices F.O.B. Our Nurseries
All stock sheared in spring or summer of 1954.

Telephone Fieldstone 7-3382

WOODBOURNE CULTURAL NURSERIES, INC.

Office: 1200 Union Turnpike
NEW HYDE PARK, N. Y.

Nurseries: Colonial Spring Rd.
MELVILLE, L. I., N. Y.

QUALITY MERCHANDISE AT REASONABLE PRICES

VANDERBROOK NURSERIES

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

WE OFFER FOR FALL, 1954, AND SPRING, 1955

a fairly good supply of:

TWO-YEAR-OLD FRUIT TREES
and
TREE-FORM FRENCH LILACS

We shall be pleased to receive your list of wants for quotations.

ROBERTS NURSERY CO.
DANVILLE, N. Y.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

LINING-OUT STOCK

HESS' NURSERIES MOUNTAIN VIEW, N. J.

TAXUS

Upright, 4 to 14 ft.

Truckloads only, no boxing.

BULK'S NURSERIES

BABYLON, L. I., N. Y.

NORTHERN COLLECTED EVERGREENS FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

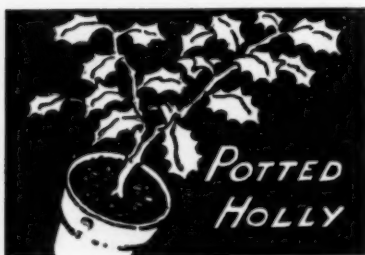
MEEHAN SPECIALTIES DRESHER—GROWN

	Per 100
Hydrangea P.G., 1-yr., layers.....	\$ 8.50
Pin Oak, 2-yr., S.....	15.50
Red Oak, 2-yr., S.....	11.50
Scarlet Oak, 2-yr., S.....	16.50
Berberis thunbergii, 1-yr., 9 to 12 ins.....	5.00
White-flowering Dogwood, 1-yr., S., 10 to 15 ins.....	7.50
Salix Babylonica, 12 to 18 ins.....	6.00
18 to 24 ins.....	7.50
2 to 3 ft.....	9.50
3 to 4 ft.....	12.50
Oriental Planes, 6 to 12 ins.....	8.50
12 to 18 ins.....	10.50
18 to 24 ins.....	13.50
2 to 3 ft.....	16.50
California Privet, 2-yr., 12 to 18 ins.....	8.00
18 to 24 ins.....	11.00
2 to 3 ft.....	15.00

Packing charges extra.

GOODRICH BUDDING STRIPS
RAFFIA

**THOMAS B. MEEHAN CO.,
INC.**
DRESHER, PA.



HARDY ILEX OPACA

We have choice named varieties which have been widely used by many eastern nurseries. Root-bound holly liners out of 3-in. pots or deep soil cans, from 6 to 10 ins. high. Also rooted cuttings. Ilex Cornuta Burfordi, Franklinia rooted cuttings. Arctostaphylos (Bearberry), out of 3-in. pots.

Taxus (varieties), 1 and 2-yr. We guarantee true to name and a reliable year-after-year source.

WRITE FOR CATALOG

HOLLY HAVEN, INC., Elizabeth C. White, Pres.
WHITESBOG 8, N. J.

Coming Events

MEETING CALENDAR

September 6 to 8, American Society for Horticultural Science, Gainesville, Fla.

September 7 and 8, convention of Kansas Association of Nurserymen, Kansas Landscape & Nursery Co. and Lamer hotel, Salina, Kan.

September 7 to 9, California Association of Nurserymen, Hotel Coronado, Coronado, Calif.

September 13, Western New York Nurserymen's Association, fall outing, Newark Country Club, Newark, N. Y.

September 17 and 18, Louisiana State Horticultural Association, Nurserymen's Section, Southwestern Louisiana Institute, Lafayette, La.

September 23, fall meeting, Western Pennsylvania Nurserymen's Association, Hotel Webster Hall, Pittsburgh, Pa.

October 1 to 3, Texas rose festival, Tyler, Tex.

November 11 and 12, Holly Society of America, fall meeting, Millville, N. J.

LOUISIANA GROUP MEET

The Louisiana State Horticultural Association will hold its seventh annual nurserymen's section meeting September 17 and 18 at the Southwestern Louisiana Institute, Lafayette, La.

The program will begin at 2 p.m., Friday, September 17, with the introduction of several distinguished speakers and guests. Saturday morning's program will begin at 9 o'clock with an educational program and continue until 11:30. The meeting will be concluded with a barbecue luncheon at 12:30.

HORTICULTURISTS TO MEET

The American Society for Horticultural Science will hold a meeting September 6 to 8, at Gainesville, Fla.

WEST PENNSYLVANIA MEET

The Western Pennsylvania Nurserymen's Association will hold its fall meeting September 23 at the Hotel Webster Hall, Pittsburgh, Pa. Dinner will be at 6:30 p. m.

CALIFORNIA CONVENTION

More than 400 nurserymen are expected to gather on Coronado island, across the bay from San Diego, for the 44th annual convention of the California Association of Nurserymen in the world-famed Hotel del Coronado for a 3-day conclave beginning September 7.

Billed officially as the "Fiesta del

SPECIMEN LANDSCAPE MATERIAL

Fine blocks of:

Arborvitae—American, Spiral, Elegantisima, Ware and Globe, 2 to 12 ft.
Hemlock, 3 1/2 to 7 ft.
Ilex Convexa, 1 1/2 to 3 1/2 ft.
Magnolia Lennei, 5 to 8 ft.
Magnolia Soulangeana, 3 to 7 ft.
Pieris Japonica, 1 1/2 to 3 1/2 ft.
Pink Dogwood, 4 to 6 ft.
Spreading Yews, 1 to 7 ft.
Upright Yews, 2 to 7 ft.

We most cordially invite you to visit us and inspect these and other materials.

ANGELICA NURSERIES

Growers of Fine Plants
3 mi. South of Reading, Pa.,
on Rt. 73, R. D. 1
MOHNTON, PA.

HEAVY EVERGREEN LINERS

Beds, twice transplanted,
pruned, bushy:

2000 Spreading Yew, 12 to 15 ins.
2000 Vermeulen Yew, 10 to 15 ins.

\$55.00 per 100; \$500.00 per 1000

Field, three times transplanted,
sheared, pruned, very bushy:

1500 Spreading Yew, 12 to 18 ins.
400 Vermeulen Yew, 12 to 18 ins.
300 Kelsey Yew, 12 to 18 ins.
750 Hatfield Yew, 12 to 18 ins.
500 Hicks' Yew, 12 to 18 ins.
250 Ilex convexa, 10 to 15 ins.
500 Hemlock, 18 to 24 ins.

\$12.50 per 10; \$95.00 per 100

Prices F.O.B. northern New Jersey.
Truck pickups can be arranged.
Packed free for cash with order.

KELSEY NURSERY SERVICE

(Est. 1878)
HIGHLANDS, N. J.

HEMLOCK Rhododendron—Kalmia Azalea

CURTIS NURSERIES

CALICOON, N. Y.

PRONOUNCING DICTIONARY of Plant Names

64 pages. 3000 names. 25¢ per copy
American Nurseryman Chicago 4.

Coronado" by General Chairman Paul Kleinsorge, Point Loma Nursery, San Diego, the meetings will feature discussions of a number of the problems of today and the prospects of tomorrow.

As is customary, a semiannual meeting of the state board of directors, headed by C. A. N. President James H. Wilson, Peters & Wilson Nursery, Millbrae, will be held on Monday, September 6. Tuesday will be devoted largely to business sessions; Wednesday will be the play day, and the convention will close on Thursday with elections and completion of unfinished business, and, in the evening, the annual ball.

An outstanding program for the ladies attending the convention has been planned by a committee of ladies, of which Angela Kleinsorge is chairman. An afternoon card party on Tuesday and a musical and tea on Thursday afternoon will be the features.

After registration on Tuesday morning, the convention will be called to order by President Wilson. The annual reports of Mr. Wilson, Executive Secretary Elmer Merz and Publicity Director Carl W. Sickler will then be given. Nominations of officers for the coming year will be the final business matter given attention Tuesday morning.

Continuing the custom begun at the 1953 convention the newly elected president of the American Association of Nurserymen, J. B. Baker, Jr., of Fort Worth, Tex., will close the morning session with a report on the activities of the A. A. N.

Tuesday afternoon the delegates will attend group meetings from 2:30 to 4:30 p.m., choosing one of the following subjects: Retailing, J. A. Armstrong, Armstrong Nurseries, Inc., Ontario, presiding; wholesaling, Ray D. Hartman, Leonard Coates Nurseries, Inc., San Jose, presiding, or landscaping, Jack W. Evans, Evans & Reeves Nurseries, Inc., Los Angeles, presiding. The chapter secretaries are expected to discuss their problems in a special session during the afternoon.

Wednesday morning A. A. N. members and guests will enjoy breakfast and the annual meeting of region 6. Play day events take up the rest of the day and will include deep-sea fishing, trips to the world-famed San Diego zoo and Balboa park, golf, tennis, swimming, boat rides or visits to nearby points of interest. The special event of the day will be the annual ball game during the afternoon.

The Thursday meetings will fea-

On their own roots

HYBRID RHODODENDRON LINERS

We are prepared to produce for you compact, beautifully branched, 10 to 12-in., hybrid rhododendron liners in all varieties, including the hard-to-root reds. Such plants as these with root balls 6 to 8 ins. in diameter need no coddling. They are ready for lining out in the field where they will quickly grow into bushy, salable stock.

Using your cutting wood, we will stick the cuttings this fall and have your liners ready for delivery September 1, 1955. Let us know your requirements as soon as possible. Our propagating facilities are not unlimited. Prices as follows:

	Each
500 to 1000	\$0.70
1000 to 3000 .....	.65
3000 to 5000 .....	.60
5000 to 10,000 .....	.55
Over 10,000 .....	.50

RANDOLPH NURSERY

89 Babylon Turnpike

Merrick, L. I., N. Y.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

BERBERIS THUNBERGI

Surplus, nice stock.

3-yr., seedlings.

Per 10 Per 1000

9 to 12 ins. and over. \$5.50 \$42.50

While they last.

6 to 9 ins. 4.50 32.50

M. EARL O'HAGAN NURSERIES

NEPTUNE, N. I.

Est. 1889

LANDSCAPING SIZES

Colorado Blue Spruce, excellent shape, many good shiners, 2 1/2 to 7 ft., R&B, \$2.00 per ft. Pyramidal Arborvitae, sheared and compact, 3 1/2 to 7 ft., R&B, 80c per ft. Azalea Mollis (Red Flame), 9 to 24 ins. Also Pfitzers, Yews, Hemlocks.

Stock via purchaser's truck.

SYLVANIA NURSERY & PEAT CO.

State Rt. 351 NEW GALILEE, PA.

LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft. 4000, all transplanted.

RED LAKE CURRANTS

Assortment of Large-size Plants for Landscape Planting

Having sold land, will clear this fall. Inspection and Correspondence Invited.

SAMUEL FRASER NURSERY

at Geneseo, N. Y.

Contact and Mail: 1302 10th St., N.W. Washington 6, D. C.

DEL-MAR-VA NURSERIES

Growers of Quality

Taxus, Ilex and other Ornamentals.

Ask for list.

DEL-MAR-VA NURSERIES

LINCOLN, DEL.

Phone: Milford, Delaware 4445

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation.

Telephone 2689

GENEVA, N. Y.

GROWERS

EVERGREEN TREE LINING-OUT STOCK

For Fall, 1954

SUNCREST EVERGREEN NURSERIES

P. O. Box 594

JOHNSTOWN, PA.

LINING-OUT STOCK

	Each	Each
	per	per
	100	1000
<i>Ilex crenata</i> , 2-yr., S., 4 to 6 ins.	\$0.05	
1-yr., S., 2 to 4 ins. ....		.03
3-yr., T., field beds, 6 to 8 ins.	\$0.30	.25
<i>Ilex convexa</i> , 3-yr., T., field beds, 6 to 9 ins. ....	.35	.30
<i>Juniperus pfitzeriana glauca</i> , 3-yr., T., field beds, 8 to 10 ins. ....	.35	.32
<i>Taxus cuspidata</i> , 3-yr., T., field beds, 8 to 10 ins. ....	.35	..
2-yr., T., field beds, 6 to 8 ins. ....	.25	..
<i>Taxus hicksi</i> , 2-yr., T., field beds ....	.25	..

Cash with Order. Free Packing.

BROOKFIELD GARDENS

U. S. Rt. 46

DELAWARE, N. J.

PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

PEEKSKILL NURSERY Phone: Labeled 8-5595 SHRUB OAK, N. Y.



HOLLIES

One of the most complete collections of the better named evergreen hollies in the country.

American
English

Chinese
Japanese

Available in three to six-inch pots.
Send for Trade List.

ANGELICA NURSERIES

growers of fine plants
R. D. 1 MOHNTON, PA.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

MILFORD

DELAWARE



PRINCETON NURSERIES

A very complete line of
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

PRINCETON NURSERIES

Ph. Princeton 1-1776 PRINCETON, N. J.

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES

NEWFANE, N. Y.

ture reports from the group discussions and from state association committees; the annual election; selection of convention cities for 1955 and 1956, and addresses by Howard Quadland, A. A. N. publicity director, and Charles Dick, of the California department of agriculture. During the annual president's dinner on Thursday evening, trophies for the various sport competitions will be awarded, after which there will be entertainment and dancing.

NEW JERSEY NURSERYMAN ON AGRICULTURE BOARD

Carleton E. Heritage, Richwood, N. J., fruit grower, and Walter M. Ritchie, Rahway, N. J., landscape nurseryman, were elected president and vice-president, respectively, of the state board of agriculture for 1954-55 at a recent organization meeting of the board.

Mr. Ritchie entered the nursery business 29 years ago and maintains a 30-acre nursery at Colonia. He served as president of the Union county board of agriculture for seven terms and was a member of the executive committee for several years. He was president of the New Jersey Association of Nurserymen for three terms and served on the executive committee for more than 15 years. He is also a member of the American Association of Nurserymen, National Shade Tree Conference and the New Jersey Society of Certified Tree Experts.

FLORIDA CHAPTER ELECTS

The newly organized Tampa Bay chapter of the Florida Nurserymen and Growers Association has recently elected the following officers: President, D. W. Davis; vice-president, Charles Culbreath; secretary-treasurer, Frank Neff; program chairman, Carl Cowgill; membership chairman, Robert Perry, and publicity chairman, Jack Holmes. This chapter will represent Hillsborough county. The Manasota chapter, the first chartered, will serve members in Manatee and Sarasota counties. Steps are also being taken to organize nurserymen in Pinellas and Polk counties.

These groups will be guided by professional men in their fields who will plan programs that will guide nurserymen to better ethics in the business and better service to their customers.

RICHARD SIPALA, landscape contractor, Huntington Station, N. Y., is starting a retail nursery.

SCARFF'S Nursery



Headquarters for Small Fruit Plants
Ornamentals and Lining-out Stock

SMALL FRUITS

RASPBERRY PLANTS

Black—Purple—Red

BLACKBERRY PLANTS

1-yr. and 2-yr. old.

RED LAKE CURRANTS

GOOSEBERRIES —

GRAPES

BOYSENBERRIES — 1 and 2-yr.

New "500" Asparagus
Linneaus Rhubarb 1 and 2-yr.

Victoria Red Rhubarb
No. 1 Div.

ORNAMENTAL SHRUBS

Landscape and Mail-order Sizes
— Miami Valley Grown —
Complete Assortment of Varieties

BARBERRY KOREANA

An aristocrat in flower and fruit.

CORNUS MASCULA

(Cornelian Cherry)

HYPERICUM KALMIANUM

Pot O' Gold

KOLKWTZIA AMABILIS

NEW VICARY GOLDEN PRIVET

(True Type)

LONICERA ZABELI

Best Red Bush Honeysuckle

EUROPEAN MT. ASH

MAGNOLIA SOULANGEANA

AND NIGRA

WASHINGTON THORN

LINING-OUT STOCK

Buxus koreana microphylla,
New Hardy Boxwood
Euonymus alatus
Euonymus alatus compactus
Euonymus carrierei and *Newport*
Euonymus yeddoensis
(Bittersweet Tree)
Hypericum kalmianum
Kerria japonica floraplana
(pot plants)
Koeleruteria paniculata
Kolkwitzia amabilis
Ligustrum regelianum, true type
Lonicera zabeli
Prunus tomentosum
Rhus cotinifolia
Spiraea Anthony Waterer

HARDY VINES

Hedera helix, English Ivy
Baltic Ivy, pot plants
Silver Lace

EUONYMUS

Patens, *Carrierei*, *Newport*
and *Colorata*
1 and 2-yr., field plants
Heavy, 3-yr., 18 to 24-in.
Landscape Specimens

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-order Items and Lining-out Stock.

SCARFF'S NURSERY

New Carlisle, Ohio

TEXANS TELEVIEW

For 18 weeks this past season, each Wednesday and Friday, television fans in the Houston, Tex., area had an opportunity to participate in a course in landscaping, offered for the first time, by the University of Houston on station KUHT-TV as an educational experiment. The course was designed to acquaint viewers with the many facets that contribute to a well-landscaped and designed home.

Outstanding landscape architects and nurserymen from the area were invited to discuss and illustrate with drawings and plans various topics on design and construction.

A panel of four members of the Texas Association of Nurserymen was featured every other Wednesday to answer questions submitted by the audience. The viewing and listening audience, based upon calls and letters, was estimated at 6,000, despite competition with Dragnet and Edward R. Murrow.

Demonstrated and discussed were soils and fertilizers, grasses and ground covers, trees of the area and their proper placement, narrow-leaved evergreens, broad-leaved evergreens, deciduous shrubs, native plant materials, terrace and sidewalk

construction, drive and utility areas, hedges and screens, foundation plantings and many other subjects.

BUSINESS RECORDS

A final meeting of creditors in the bankruptcy case of Henry A. Dreer, Inc., Philadelphia, Pa., was called for August 18, to audit the accounts of trustees and to consider petitions for trustees' allowances and attorneys' fees, totalling approximately \$20,000. Cash collected by the referee in bankruptcy amounted to less than \$60,000, and priority claims for wages, taxes, rent, etc., totalled about \$35,000, so that, after allowance of administration costs and expenses, there will be no dividend distribution whatever to unsecured creditors, according to L. Leroy Deininger, referee in bankruptcy.

PROMPTED by another dry summer, Waynesboro Nurseries, Inc., Waynesboro, Va., has added additional irrigation equipment to take care of more than 500 acres, resulting in a minimum of transplanting losses. The firm has purchased a new farm with an abundant water supply for the purpose of further expansion of nursery stock.

LARGE PFITZER AND VIRGINIANA JUNIPERS

The Pfitzers are choice specimens, dense, compact and with good height. Sizes (spread): 3 to 4 ft., 4 to 5 ft. and 5 to 6 ft.

The Virginiana Junipers (Red Cedar) are sheared dense, compact and are beautiful specimens in sizes from 5 to 10 ft.

ALSO LARGE

GOLDEN PFITZER, SAVIN, SILVER STAR (Spreading *Scopulorum*) and **ANDORRA JUNIPERS** and **EUONYMUS PATENS**.

Ideal stock for landscaping public buildings or for any project requiring large material. We invite you to see it.

Available in Carload or Truckload Lots.

**KANSAS LANDSCAPE
& NURSERY CO.**
SALINA, KAN.

TAXUS (YEWS) For Fall, 1954



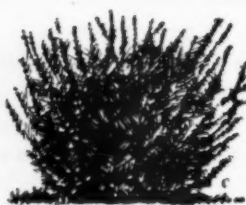
TAXUS HICKSI

15 to 18 ins. \$3.00
18 to 24 ins. 3.50
24 to 30 ins. 4.00
30 to 36 ins. 5.00



TAXUS CAPITATA

15 to 18 ins. \$4.00
18 to 24 ins. 4.75
24 to 30 ins. 6.00



TAXUS CUSPIDATA

15 to 18 ins. \$3.00
18 to 24 ins. 3.50
24 to 30 ins. 4.00

All plants have been sheared, root-pruned and are in excellent condition. Our nursery is free of Japanese Beetle and we can ship anywhere in U. S.

TRUCKLOADS or CARLOADS

SHAW-BALTIC NURSERY DEPT.

9650 Carnegie Ave.

RANDOLPH 1-7900

CLEVELAND 6, O.

THE LAKETON NURSERIES, Laketon, Ind.

Quality Nursery Stock since 1880

HARDY PLANTS Bulbs and Shrubs

"America's Finest"

Write for Trade List

Springbrook Gardens

MENTOR, O.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

FOR PROMPT ACTION

Send us your Surplus List.

GROWERS EXCHANGE, Inc.

P. O. Box 264 FARMINGTON, MICH.

WANTED

Quotations on Black Gum

(Nyssa Sylvatica)

Nursery-grown, B&B

We need

50 1 1/2 to 1 3/4-in. cal.

12 2 1/2 to 3 -in. cal.

2 3/2 to 4 -in. cal.

FARM LANDSCAPE CO.

Box 230

URBANA, ILL.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.



Wholesale growers of the best

Ornamental Evergreens

Deciduous Trees

Shrubs and Roses

Write for our current trade list

THE KALLAY BROTHERS CO.

Painesville, Ohio

MAIL-ORDER MEETING

[Continued from page 10]

most persistent problems, postal rates.

Mr. Henderson mentioned the familiar 36 per cent increase in parcel post rates which took effect in October, 1953, and added that fortunately, a further increase in 1954 was avoided. "But we know," he added, "that the Postmaster General will ask next February for another substantial increase effective late in 1955, and he can get that increase without any reference whatsoever to Congress. That is what makes the parcel post anti-rate increase fight difficult."

The right of the Postmaster General to fix parcel post rates (with the rubber-stamp approval of the interstate commerce commission) without requiring congressional approval is one of the prime targets of the Parcel Post Association. Mr. Henderson declared. Only the Congress should have the right to establish parcel post rates, he added.

Parcel post is the only postal service required by law to be self-supporting. Mr. Henderson continued, and, when it shows an operating loss, adjustments, usually rate increases, must be effected to bring the service's income in balance with its outgo. At present, the parcel post service is operating at a loss because, according to the speaker, of Public Law 199. This, Mr. Henderson said, is the law the railroads and railway express agency had enacted in 1951, drastically cutting the size and weight limitations of packages which may be mailed. This law, he said, costs the Post Office Department a revenue loss of more than \$100,000,000 each year.

Although agricultural products, including nursery stock, are excluded from the size and weight limitations of the law, nurserymen still have an interest in seeing that the law is repealed. Mr. Henderson pointed out, because it is the loss being caused by this law that is resulting in the continued increases and requests for increases in parcel post rates. The speaker called for an organized effort to bring about the changes he outlined.

Luncheon Speakers

Two luncheons were held during the convention, with a featured speaker for each. On August 9, the luncheon speaker was Alan Drey, Walter Drey, Inc., Chicago, who spoke on mailing lists. Mr. Drey, who is a mail-order broker, described the services performed by those in

for FALL DELIVERY

- SCOTCH PINE—\$40.00** per 1000
Pinus sylvestris, Riga Variety, 2-yr. seedlings, 6 to 8 ins.
- SCOTCH PINE—\$75.00** per 1000
Pinus sylvestris, Riga Variety, 4-yr. transplants, 12 to 16 ins.
- RED PINE—\$25.00** per 1000
Pinus resinosa, 2-yr. seedlings, 4 to 6 ins.
- RED PINE—\$75.00** per 1000
Pinus resinosa, 4-yr. transplants, 12 to 16 ins.
- AUSTRIAN PINE—\$35.00** per 1000
Pinus nigra, 2-yr. seedlings, 4 to 6 ins.
- AUSTRIAN PINE—\$90.00** per 1000
Pinus nigra, 4-yr. transplants, 8 to 12 ins.

Write for Complete Price List

EVERGREENS • SEEDLINGS • TRANSPLANTS

NEKOOSA-EDWARDS PAPER COMPANY

NEPCO LAKE NURSERY

Telephone 5566

PORT EDWARDS, WISCONSIN

his profession. He maintained that the success of a commercial mailing depends upon the proper selection of mailing lists.

The speaker at the August 10 luncheon was John R. Whiting, editor and publisher of Flower Grower magazine, who spoke on "Influence of Garden Magazines on the Growth of Gardening." Mr. Whiting described the services performed by consumer garden magazines and called for cooperation between professional nurserymen and the consumer magazines to provide the gardening public with the latest and best in horticultural information.

Round-Table Discussions

The morning session of August 10 was devoted to a series of round-table discussions on a number of topics of interest to mail-order nurserymen. Representatives of supply firms and nurserymen headed the various discussions. As might be expected, much interest was shown in the round table on polyethylene materials, at which samples of various plastic packaging materials were displayed. Other round tables featured discussions of tying machinery, twine and cordage, storage records, order filling and machine records.

In addition to the activities at the

round tables, there were a number of informal discussions among nurserymen and others in and out of the meeting room. The session was informal but most informative to the participants.

Business Session

During the business session, the retiring president, Clark Kidd, Arp Nursery Co., Tyler, Tex., applauded the efforts of the nursery industry to clean its own house and voiced optimism about the future of the mail-order nursery industry. He cited several examples of attention-getting mailing pieces.

Wayne Ferris, Earl Ferris Nursery, Hampton, Ia., reporting for a special committee on packaging research, recommended the establishment of a permanent research committee to examine projects of possible benefit to the mail-order nurserymen. The suggestion received the unanimous approval of the group.

Carl Lumry, speaking for a special legislative committee, told the nurserymen that the director of the Colorado bureau of plant industry has been convinced that the controversial Colorado nursery stock inspection law is detrimental to all concerned and will ask for a repeal of the law at the next session of the

QUALITY STOCK

IRIS	Per 100
White Cloud	\$11.00
Mount Cloud	11.00
Christabel	11.00
AZALEA MOLLIS , 3-yr., T., heavy sheared and bushy, 15 to 18 ins.	85.00
12 to 15 ins.	70.00
10 to 12 ins.	55.00
LIGUSTRUM, AMUR RIVER PRIVET , heavy, 5 canes and up,	
15 to 18 ins.	10.00
18 to 24 ins.	13.00
2 to 3 ft.	17.00
3 to 4 ft.	25.00
LIGUSTRUM OVALIFOLIUM (Call), 3 ft.	15.00
LILAC, FRENCH , Florent Stepman, Ruhm von Horstenstein, Charles X, Michel Buchner, Hugo de Vries, Ludwig Speath, President Grey, Charles Joly, Hugo Koster, Mme. Lemoine.	
2-yr., 2 to 3 ft. nice, bushy plants	85.00
18 to 24 ins.	70.00
15 to 18 ins.	55.00
12 to 15 ins.	40.00

Cash with order earns free packing. One-fourth cash with order; balance before shipping or C.O.D.

See our classified ad on page 69.

LITTLE MOUNTAIN VIEW NURSERIES

R. D. 1, Rt. 84

MENTOR, O.



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

Colorado legislature. Substitute legislation, which will be submitted to industry representatives for approval, will be introduced during the legislative session.

Business Reports

Reports on business conditions were received from nurserymen representing various sections of the country. Harold Timmons, reporting for the eastern region, stated that no surpluses of nursery stock are developing in his area and that there is a possibility of shortages in fruit trees. Business during the past spring was good and no reductions in prices are expected in the future.

Representing the southern region, John Fraser III reported good business for the past season. He also looked for a shortage of fruit trees, but declared there may be a surplus in roses.

A good supply of most kinds of nursery stock was predicted by Ted Sjuln, reporting for the west central region. He felt that good business will continue if the proper emphasis is placed on salesmanship.

A good 1954 selling season, only slightly off from the exceptionally good year of 1953, was reported by Leonard Condon, Jr., Condon Bros., Rockford, Ill. Mr. Condon, reporting for the east central region, stated that competition for the consumer's dollar is greater than ever and that nurserymen will have to sell energetically to meet this competition. He predicted a bright future for mail-order nurserymen who are willing to go after the business.

The report for the Pacific coast region was given by J. A. Armstrong, Jr., Armstrong Nurseries, Ontario, Calif., who told of a 1954 season as good as that experienced during the previous year. He mentioned, as the only weak spot, a slight surplus in roses. The price situation, he predicted, will remain unchanged.

A necrology report was presented to the membership by Kenneth A. Brent, managing editor of the American Nurseryman.

PEONIES

FRENCH LILACS

EVERGREENS

Items for early fall shipment are quoted in our Preliminary Fall Price List now ready for mailing. Write for copy.

Complete Price List in September.

BRYANT'S NURSERIES

ARTHUR BRYANT & SON

PRINCETON

ILLINOIS

Minnesota Grown

**FLOWERING CRABS
ORNAMENTAL TREES
and SHRUBS**

Fruit Trees and Berries

.....
Complete Selection
of Fine Roses
Write for our Free Wholesale Catalog

Andrews

NURSERY COMPANY

SINCE 1872

FARIBAULT, MINN.

LINING-OUT and FINISHED STOCK

Ask for List

THE COTTAGE GARDENS

Our 31st Year

Nick I. W. Kriek—Harold E. Hicks
LANSING 15, MICH.

TAXUS and JUNIPERUS

Spreading and Upright

Lining-out and B&B

OPERATED BY HOLTON & HUNKEL CO.

P. O. BOX 1747

MILWAUKEE, WIS.

BROWN DEER
NURSERIES

NORTHERN-GROWN STOCK

Evergreen Liners

Bleeding Hearts

Ornamental Shrubs

Fruit Trees

French Lilacs

Philadelphus Minnesota Snowflake

(Plant Patent No. 538).

Send for list.

J. V. BAILEY NURSERIES

ST. PAUL 6, MINNESOTA

EVERGREEN LINERS

Write for trade list.

DRAKE'S NURSERIES

G-4342 Branch Rd.

FLINT 6, MICH.

OAK WILT EASILY SPREAD

The nature of the oak wilt fungus to develop beneath the bark and cause it to crack makes the source of the disease readily available to a variety of insects, according to the research findings of three scientists at the University of Wisconsin, reported at the American Phytopathological Society meeting at Estes Park, Colo., on August 26 by Esther Struckmeyer, speaking for her research co-workers, J. E. Kuntz and A. J. Riker.

Oak wilt infection has an indirect effect on the tree that causes the xylem vessels (tubes that carry water from roots to leaves) to become blocked. Later, after most of the leaves have wilted and dropped, fungus growth appears in the xylem vessels. The fungus then grows outward through adjacent wood cells until it reaches the surface of the wood, beneath the bark. Here, prolific growth of the fungus occurs, causing dense mats to form. Outward pressure of these mat growths cracks the bark and provides easy entrance for insects, which spread the fungus.

PROMISING NEW CONTROL

Visitors to the Connecticut agricultural experiment station field day, held on August 18 at New Haven, Conn., saw field plots in which a weed killer is proving its usefulness as a control for plant disease. According to Dr. Paul Waggoner, plant pathologist at the station, 2,4-D, a common weed killer, is showing considerable promise in checking verticillium wilt, one of Connecticut's most serious potato diseases. Put on alone, or in combination with an antibiotic, 2,4-D has reduced the severity of wilt symptoms.

The treatments were applied in early June, when potato plants were six to eight inches high. At first, 2,4-D stunted the plants' growth and produced a shoestring leaf. The potatoes seemed to overcome this effect within a few weeks, however.

The effect on yield is not yet known. This will be determined when the potatoes are harvested in the fall.

G. N. SPAVEN, Hardscrabble Nursery, Heathsville, Va., has recently reopened his nursery, in which he has spent some 15 years. The firm will specialize in hybrid hollies and yews.

MICHAEL ROBBE, landscape gardener, Export, Pa., has just entered the nursery trade. He is using his home for the business location.

FINISHED TAXUS and LINERS



These fine plants are surplus of stock grown for our own landscaping business. Prices below are to the nursery trade and subject to prior sale. 25 at 100 rate; 250 at 1000 rate; 5% discount for cash with order. Boxing at cost.

	Each per 100	Each per 1000		Each per 100	Each per 1000
TAXUS HATFIELDI			TAXUS HICKSI		
600 12 to 15 ins., B&B, XXX	\$2.75	\$2.50	800 12 to 15 ins., B&B, XXX	\$2.25	\$2.00
700 15 to 18 ins., B&B, XXX	3.75	3.50	600 15 to 18 ins., B&B, XXX	3.50	3.25
1500 3-yr., XX, bands	.60	.55	300 18 to 24 ins., B&B, XXX	4.25	4.00
TAXUS CUSPIDATA CAPITATA			2000 3-yr., XX, bands	.60	.55
100 18 to 24 ins., B&B,XXX	4.75	4.50	2000 2-yr., 2-in. pots	.30	.27
150 2 to 2 1/2 ft., B&B,XXX	6.50	6.25	TAXUS BROWNI (GLOBE)		
150 2 1/2 to 3 ft.	7.75	7.25	1000 3-yr., XX, bands	.60	.55
25 3 to 3 1/2 ft.	9.25	...	TAXUS, PAYNE'S SPREADING		
TAXUS MEDIA NO. 18 (GLOBE)			1000 3-yr., X, 2 1/4-in. pots	.35	.32
800 3-yr., X, 2 1/4-in. pots	.35	.32			

EAGLE CREEK NURSERY CO., INC.



Growers of Fine Evergreens

NEW AUGUSTA, IND.

CORNUS FLORIDA RUBRA

(Pink-flowering Dogwood)

	10 Rate Each	100 Rate Each
12 to 18 ins., B.R.	\$1.00	\$0.75
18 to 24 ins., B.R.	1.25	1.00
24 to 30 ins., B.R.	1.50	1.25
30 to 36 ins., B.R.	1.75	1.50
All sizes listed below are 60 per cent or more with bloom buds.		
24 to 30 ins., B&B, 2-yr.	2.50	2.25
30 to 36 ins., B&B, 2-yr.	3.50	3.00
3 to 4 ft., B&B, 2-yr.	4.25	4.00

TENNESSEE VALLEY NURSERY

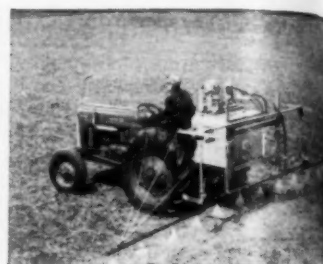
Hoskins A. Shadow

WINCHESTER, TENN.

Introducing
the Brand-New



Rear-mounted post driver



General-purpose and weed
sprayers

OLIVER SUPER 55

the all-new, all-purpose tractor wi



Takes all equipment...
front, rear or side-mounted!

The built-in hydraulic 3-point hitch operates a wide choice of Oliver and other simple, low-cost tools. And the solid, one-piece frame of the Super 55 makes a convenient foundation for front- or side-mounted equipment.



Hydraulic or mechanical mowers



Rear-mounted 6-foot scraper

Other attachments include
Rotary and reel-type mowers
Rear crane lift
Lifting boom for loaders
Post hole diggers
Rear-mounted hydraulic backho



Universal frame for dozer blades, snow plows



Rear fork lift carrier



All-purpose, 7-cubic-foot scoop

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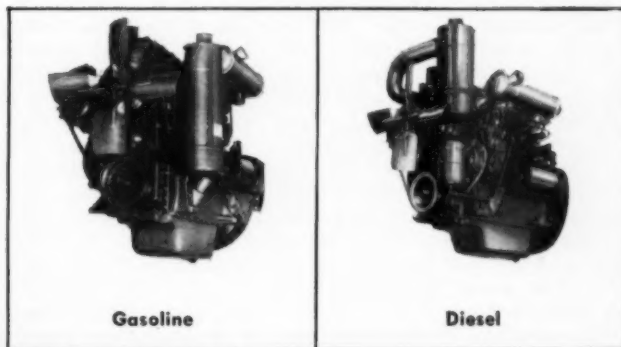


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TREE MAINTENANCE

By Noel Wysong

DUTCH ELM DISEASE THREATENS CHICAGO AREA

Will the Dutch elm disease appear in the Chicago area this year, or next year or the year thereafter? Or will Chicago's elms continue to escape the fate that has befallen thousands of trees in the eastern states, in Detroit, Indianapolis and southern Illinois? These are questions nobody can answer definitely, but those who are familiar with the pattern of the disease and the conditions at Chicago know that the odds are in favor of the disease appearing at this city sooner or later.

All except one of the ingredients necessary for trouble with the Dutch elm disease are present in metropolitan Chicago. The city's streets are lined with elm trees; one can travel for miles on many of the arterial routes leading into the loop without seeing any tree species in the parkway other than elm. Elms predominate, too, on the side streets. Similar conditions exist in practically every one of the suburban communities adjacent to Chicago. Indeed, probably there is not one town or village in all of northern Illinois in which elm is not the dominant street tree species. And there are scattered elm trees along most of the highways and secondary roads that link these villages to one another and to Chicago.

Beetles Present in Abundance

It has long been known that the smaller European bark beetle, principal carrier of the Dutch elm disease, is present at Chicago. That the beetles are here in abundance is indicated by the following incident: Late last fall a dying elm was taken down and the workmen, seeing a number of borers under the bark, brought a small section of the trunk in for identification of the insect. This trunk section was placed in a ventilated, insect-tight container, and maintained at room temperature. Five weeks later mature elm bark beetles began appearing. During the next 2-week period 100 European elm bark beetles were collected from the cage as they matured;

this was about one half the number that ultimately reached maturity. And all these beetles developed from the larvae contained in a trunk section that measured only seven inches in diameter and 10 inches in length!

The one factor which, so far, has prevented an outbreak of the Dutch elm disease at Chicago, is the absence of the disease itself. For many years the disease has been present at Indianapolis, Ind., and until recently no infected elms were found closer to Chicago than those in the Indianapolis area. Then, in 1950, two elms infected with the Dutch elm disease

were discovered a short distance east of Mattoon, Ill. In 1951, 11 infected elms were found in scattered locations in Coles, Champaign, Douglas and Lawrence counties, and by 1953 the disease had spread to 12 Illinois counties, taking a toll of almost 500 elms. In that year trees infected with the Dutch elm disease were found in the vicinity of Onarga. This year, 1954, the disease has been found at Kankakee, only about 50 miles from Chicago.

This distance, as far as the disease is concerned, is not an insurmountable barrier. The adult beetles that serve as its carrier can fly a considerable distance; it is doubtful that the greatest distance between elm trees in this 50-mile stretch exceeds the 1,000 feet or so which is generally considered to be about the maximum infective flight range of the beetles. There is also the possibility of the disease's being spread through mechanical transportation of spore-laden beetles. On any one of the many freight trains, trucks, buses

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18 to 24 ins.		4.00
<i>Taxus Adams Columnaris</i> , 18 to 24 ins.		3.75
24 to 30 ins.		4.50
30 to 36 ins.		5.50
<i>Magnolia Soulangeana</i> , 2 to 3 ft.		3.00
3 to 4 ft.		4.00
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<i>Ilex Cornuta Burfordi</i> , 15 to 18 ins.		2.00
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<i>Pfitzer Juniper</i> , 15 to 18 ins.		\$2.25
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and automobiles that pass through the infected area en route to Chicago, a bark beetle, carrying the spores of the disease on its body, may "hitch-hike." One such beetle, flying to and feeding upon a healthy elm at the termination of its ride, can start a new center of infection. All factors considered, it will be a near miracle if Chicago much longer remains free of the Dutch elm disease.

Effects of Disease

If the Dutch elm disease is allowed to become well established at Chicago, many, many elms will die. The beauty that shade trees lend to streets, parks and private residences will be lost; in many cases property values will decline because trees often are an integral part of the market price of real estate. Added to this will be the cost of removing dead trees. At current rates for labor and equipment the cost of removing even a medium-size tree, when it has to be topped and lowered to the ground branch by branch to avoid property damage, may easily amount to \$100 or more.

The one way to prevent these losses is to prevent the disease from becoming established. Fortunately, the Dutch elm disease does not attack a new area en masse. Normally,

one or two infected trees will be found the first year of its invasion. Unless control measures are immediately instituted, the next year it may cause the death of a few dozen elms, and after that its annual toll of trees will increase sharply. Its record at Urbana-Champaign is typical of the progress of the disease. In 1951, two elms infected with Dutch elm disease were found within the city limits of Urbana-Champaign; in 1952, 11 were discovered; in 1953 the number of infected trees jumped to 164. The disease is definitely established and is on the increase in this area; it is virtually certain that there will be an increase in the number of diseased trees there again this year.

The gradual build-up of the Dutch elm disease in a newly invaded area offers the best possible opportunity to institute effective control measures. These measures consist primarily of sanitation and spraying, and, if put into effect immediately after the disease is first found in a community, there is a good chance it can be eradicated. Even though the disease may not be eradicated, its progress certainly will be greatly retarded by a well-planned and carefully maintained control program.

Infected elms should be cut down,

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Washington Hawthorn , 12 to 18 ins., T.	22.50	200.00
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Red Barberry , 12 to 18 ins., S.	12.50	100.00
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Viburnum dilatatum , 12 to 18 ins., S.	15.00	125.00
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and the wood burned or treated so that it will not provide a habitat for the bark beetles. Dead branches should be pruned from elm trees to eliminate possible breeding places of the beetles, and dead elms, regardless of the cause of death, should be removed for the same reason. Elm wood should not be allowed to accumulate, as in wood piles for fuel purposes, unless it has been thoroughly sprayed with DDT.

DDT Effective

Two DDT sprays a year, the first applied in the spring before the leaves appear and the second 75 to 90 days later, constitute the most effective means known at present of combating the Dutch elm disease. The sprays are applied to protect elms against the feeding of the bark beetles, and, thus, against the disease. It must be borne in mind that these sprays are in the nature of a protectant, not a cure. Chemotherapy, involving the use of many different materials, has been under investigation for several years, but results, to date, have been disappointing.

Every community in northern Illinois—for that matter, in all sections of the state—should begin eliminating immediately the breeding places of the elm bark beetles. This is a sound tree-protective measure that is beneficial under any circumstances; it is the front line defense against the Dutch elm disease. It is useless to apply the special sprays necessary to control Dutch elm disease until the disease actually is within the community, but it is highly important that these sprays be applied adequately and at the proper time thereafter.

The Dutch elm disease is known definitely to be as far north in Illinois as Kankakee. If its northward advance is to be stopped, it behooves every nurseryman, arborist and private citizen who owns or likes elm trees to be on the alert to detect and report any elm tree north of the Kankakee area that shows the symptoms of the disease. These include wilting and discoloration of leaves, often defoliation of affected branches, occasional deformation of the tips of succulent twigs to form a "shepherd's crook," brown streaking in the sapwood of affected branches and gradual to rapid decline in the health of the tree. Wilting, foliage discoloration and leaf drop may involve the entire tree and proceed so rapidly that within a few weeks after the appearance of the first symptom the entire tree is defoliated. More often, however, affected trees develop

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"flags," individual branches with strikingly yellow leaves that contrast vividly with the normal green foliage. The leaves may fall from such branches somewhat earlier in the autumn than from the rest of the tree. Sometimes yellowing of foliage develops gradually over the entire tree, and premature defoliation may occur.

If an elm exhibiting any of these symptoms is seen in any community north of Kankakee, it should be reported immediately to the department of plant pathology, Illinois Natural History Survey, Urbana. Since the casual organism of the Dutch elm disease is a fungus, it can be determined readily through laboratory technique whether or not this disease is responsible for the symptoms. Field diagnosis cannot be depended upon entirely since there are several other less serious diseases that cause wilting, leaf discoloration, defoliation and wood streaking in a manner similar to the Dutch elm disease.

Public Must Decide on Action

After it has been definitely determined that the disease has invaded a new area—Joliet, Elmhurst or Chicago for example—then it is up to the people of that community, individually and collectively, to decide what course of action is to be pursued. Many individual property owners will practice approved control measures whether or not their neighbors do so; this is practical procedure because it has been demonstrated that a high degree of protection can be given elms in a relatively small area even when surrounded by unprotected and infected trees.

A community-wide disease control program is, of course, preferable since through such action the sources of infection—diseased, beetle-inhabited elms and dead elm wood—can be held to a minimum, and most of the bark beetles that do emerge will be destroyed by widespread spray operations. Certainly, a community-wide program is costly, but as one authority has pointed out, "an elm usually can be sprayed for the interest rate or less on the money it takes to remove a large dead tree under most urban conditions." If a community-wide control program is not developed and maintained, it is certain that a high percentage of the elms in the area will die. If an adequate program is organized and put into effect immediately after the first diseased elm is found, experience has proved that most of the elms can be saved.

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**BOOK REVIEWS****FERTILIZERS UP TO DATE**

Since the initial publication in 1947 of "The Response of Crops and Soils to Fertilizers and Manures," by W. B. Andrews, agronomist at Mississippi State College and experiment station, six printings have been required to meet the demand for the book.

This year the author has brought his publication up to date in a second edition, to keep pace with the increasing use of nitrogenous fertilizers. A new chapter discusses the advances in anhydrous ammonia, aqua ammonia, ammonium nitrate in solution, solutions of ammonium nitrate and urea, and solutions of free ammonia and ammonium nitrate or urea.

Containing 463 pages, this book, priced at \$4.50, embodies the author's review of much of the literature on the subject in teaching and in conducting experiments on various problems connected with the use of fertilizers and manures.

Hence this book contains much useful information in a form available to the average reader, as well as to one technically trained. The grower can learn the significance of complex scientific data without being required to delve into an abstruse text.

PHLOX

The increasing popularity of the phlox as a garden flower is sure to make welcome the new volume in Collins' flower monograph series, "Phlox," by B. H. B. Symons-Jeune, just published by Collins, London, England, at 12s. 6d. Its 127 pages of text cover the genus thoroughly from the standpoint of the gardener, from the opening chapter, which attempts to straighten out the species in the genus phlox, to a discussion of the value and uses of the various types, particularly that known as Phlox decussata, for the landscape. Other chapters include soil and cultivation, propagation, hybridizing, phlox from seeds, pests and diseases and, in conclusion, a chapter on the annual phlox, P. drummondii, and one on alpine phlox.

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SIGNS

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The author, Captain Symons-Jeune, is well known abroad for his own introductions of phlox and the R. H. S. awards he has received for them. The variety named for him, B. Symons-Jeune, is pictured in the frontispiece in colors, while 18 other species or varieties are pictured in black and white. His understanding of his subject and thorough discussion of its various phases recommend the book to commercial growers as well as to amateur gardeners.

PLANS FOR BETTER IRISES

Better irises for United States gardeners and improved knowledge of how to grow them are the goals of L. F. Randolph, professor of botany, Cornell University, Ithaca, who has returned from six months of research in Europe and the near East. The Cornell botanist is an internationally known authority on the breeding of irises.

Traveling under sponsorship of the American Iris Society, of which he is a director; the Cornell faculty, and the college of agriculture, he and Mrs. Randolph collected living plants of more than 100 different kinds. These will be used in developing new hybrids suitable for United States gardens, and in basic studies of heredity in iris.

The early part of the Randolphs' trip was spent collecting information in herbaria and museums in London, Paris, Geneva, Munich, Vienna, Florence and other cities. They began collecting early in March in France, when the first dwarf iris came into bloom, and continued by car through Italy, Yugoslavia, Greece, Lebanon and 10 other countries. They found most of the plants growing on rocky mountainsides in well-drained soil and plenty of sunlight. Professor Randolph notes, "We saw why the iris makes such an ideal rock garden plant."

CLARK P. MALMO, Malmo Nurseries, Seattle, Wash., recently sold a portion of his nursery property to developers of a new shopping center. The firm's business is being conducted on the remaining 12 acres, which includes an elaborate garden store.

THE Neilsen Nursery, Council Bluffs, Ia., recently sold its greenhouse department to Elmer Shipley, who is presently connected with the Earl May store located at Council Bluffs.

SHADE TREES

SILVER MAPLE—Transplanted, straight, well-branched trees.

	Per 10	Per 100	Per 1000
4 to 5 ft.	\$ 6.50	\$ 60.00	\$ 400.00
5 to 6 ft.	9.00	85.00	600.00
6 to 8 ft.	15.00	125.00	1000.00
8 to 10 ft.	20.00	175.00	1500.00
10 to 12 ft.	22.50	200.00	.....

CHINESE ELM—Transplanted, straight, well-branched trees.

	Per 10	Per 100	Per 1000
4 to 5 ft.	6.50	60.00	400.00
5 to 6 ft.	9.50	90.00	700.00
6 to 8 ft.	16.50	135.00	1100.00
8 to 10 ft.	20.00	185.00	1600.00
10 to 12 ft.	25.00	225.00

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8 to 12 ins., 1-yr.	\$ 8.00	\$ 50.00
12 to 18 ins., 1-yr.	8.50	75.00
18 to 24 ins., 1-yr.	12.50	100.00
24 to 30 ins., 1-yr.	15.00	125.00
30 to 36 ins., 2-yr.	17.50	150.00
3 to 4 ft., 2-yr.	30.00	250.00
4 to 5 ft., 3-yr.	50.00	400.00

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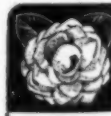
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6 to 8 ft.	\$2.50	\$22.50
8 to 10 ft.	3.25	30.00
10 to 12 ft.	4.50	42.50
Catalpa Bungei,		
5 to 6 ft. stems,		
2-yr. heads	2.50	22.50
6 to 7 ft. stems,		
2-yr. heads	3.00	27.50
Elm, American and Chinese,		
6 to 8 ft.	1.75	15.00
8 to 10 ft.	2.25	20.00
10 to 12 ft.	3.25	30.00
Flowering Crab Apple—		
Eleyi and Hopa,		
3 to 4 ft.		
(\$75.00 per 100)	1.00	8.50
4 to 6 ft.		
(\$100.00 per 100)	1.50	12.50
Flowering Peach—		
Pink, Red and White,		
4 to 6 ft.		
(\$80.00 per 100)		9.00
Linden, American,		
6 to 8 ft.	2.50	22.50
8 to 10 ft.	2.75	25.00
10 to 12 ft.	3.75	35.00
Maple, Norway,		
6 to 8 ft.	3.50	32.50
8 to 10 ft.	4.00	37.50
Maple, Silver,		
6 to 8 ft.	2.25	20.00
8 to 10 ft.	3.00	27.50
Oak, American and		
English White,		
8 to 10 ft.	4.50	42.50
Plane, Oriental,		
6 to 8 ft.	2.50	22.50
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Poplar, Lombardy,		
6 to 8 ft.		6.50
8 to 10 ft.	1.00	8.50

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ANTIBIOTIC SPRAY HALTS BACTERIAL DISEASE

A bacterial plant disease, responsible for heavy damage to tomato and pepper crops in subtropical Florida, has been controlled for the first time, with a spray of two antibiotic drugs used in human medicine—terramycin and streptomycin.

Dr. Robert A. Conover, plant pathologist at the University of Florida experiment station, has issued a bulletin to growers (No. 54-2) summarizing successful large-scale experiments conducted over two growing seasons with agri-mycin, a spray compound of the two antibiotics. The new treatment was particularly effective against bacterial spot of tomato seedlings used for transplanting.

Experimental work with antibiotics for the control of plant diseases has been carried on by the United States Department of Agriculture, state and university experiment stations since the fall of 1952. Preliminary reports have indicated that a number of bacterial blights hitherto considered incurable are checked by agri-mycin. Halo blight of beans and fire blight of apples and pears have been brought under control in experimental plots at the U. S. D. A. station, Beltsville, Md.; the Ohio state experiment station, and at the University of Missouri. Preliminary success also has been reported after research on peaches, walnuts, cotton and tobacco diseases of bacterial and fungus origin.

During the past year agri-mycin had been distributed for experimental purposes exclusively. It is now available to Florida growers.

SEMINOLE NURSERIES FEATURED IN LOCAL PAPER

Dick Johnson, 25, who is helping his father operate the Seminole Nurseries, Largo, Fla., was, along with the firm itself, the subject of a feature story in the Panama City (Fla.) News-Herald. The article stated that Dick was born, reared and married in the family nursery, so that it is natural that he has entered the nursery business with his father, Jesse Johnson, founder of the nursery and co-owner of it with his brother, T. A. Johnson, of Clearwater. The article described the early struggles of the firm's owners to become established and the subsequent development of the nursery, which now covers 200 acres, including eight lakes.

According to the article, the owners plan to build a new office build-

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SPECIMEN B&B EVERGREENS FOR FALL

1000 Canadian Hemlock

2 1/2 to 3 ft.
3 to 3 1/2 ft.
3 1/2 to 4 ft.

3000 Junipers

Blue Hetz; Standard Pfitzers,
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18 to 24 ins.

2 to 2 1/2 ft.

2 1/2 to 3 ft.

1000 Taxus

In various varieties and sizes.

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LEELAND FARMS
LEESBURG, GA.

ing in the future which will feature plate glass windows in the rear, overlooking their palm-lined avenue entrance to the tourists' floral walk. The article dwelt at length on the beauty of the nursery's grounds, which feature many azaleas, crotons, hibiscus, gardenias, calliandra, ixora and tropical palms.

NURSERIES IMPORTANT TO FLORIDA ECONOMY

Industry organizations estimate that Florida receives about \$40,000,000 annually from ornamental horticultural products—an income which makes the state's nurseries important to the economy of the state. Florida may indeed become the land of flowers its name implies.


Realizing the increasing importance of ornamentals to both the economy and the beauty of the state, the Florida agricultural extension service has materially expanded its service to both individual residents and the industry during the past year. Extension now has two specialists devoting full time and another half time to ornamentals work.

Dr. E. W. McElwee, head of the ornamentals division, says the interest of Floridians in ornamentals is evidenced by the fact that the average resident of Florida spends about three times as much annually for horticultural specialties—flowers, shrubs and bulbs — as does the average United States citizen. There is a large local market for ornamental products, in addition to a large out-of-state market.

Stan Says —

You are bound to have many customers ask for an unusual lawn tree. The tree I would recommend is the Kentucky coffee tree (*Gymnocladus dioica*). Though evidently a native of Kentucky, it is hardy throughout the Pennsylvania-Ohio belt. In the winter its heavy bare branches make it resemble the old-fashioned hat rack that we had at home. When spring comes and the dark green foliage covers all its branches, it is a most attractive tree. Leave its lower branches alone—why have a high trunk on a lawn?

Do not bother to show this tree to a fussy customer who wants a tree with a straight leader. This tree stands city conditions and apparently has no insect enemies or other troubles. It grows about 40 or 50 feet high and has a fairly good spread—it's the plump type.



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18 to 24 ins., well-branched plants, B.R., \$1.00.
4 to 6 ft., B&B specimen plants for landscape work, 75c per foot.
Bed liners, branched, 50c each.

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Easiest way to sell TULIPS, HYACINTHS, DAFFODILS, etc. Lowest prices for top-quality bulbs. Order bulbs as you need them from the large stock we carry throughout the fall season.

STASSEN will also ship bulb orders direct to your customers under your name and label through use of the retail catalog which we have prepared for dealers.



Your own full color catalog - folds to 9 1/2 x 6 1/4 self mailer - streamlined - only the big top sellers - self contained order blank. COST PRICES.

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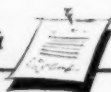
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Plant Patents



The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1274. Rose plant. Harold R. Campbell, Temple City, Calif. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its large, full, long-lasting blooms; the unusually numerous petals and petaloids; the Bengal Rose general color tonality of its blooms; the uniformity of color and absence of bluing; the strong rose fragrance of the blooms; the unusual initial waxy ivory color of its thorns, and the habit of becoming a deep mahogany color as the wood ages.

No. 1275. Tamarix plant. George Jackman, Woking, England, assignor to Gulf Stream Nursery, Inc., Wachapreague, Va. A new and distinct variety of tamarix plant, characterized particularly as to novelty by its vigorous and compact habits of growth; by its prolific and decorative cascadelike blooming habit, resulting from small individual flowers gathered in large drooping panicles at the top of each young shoot; by the Rose Madder general color tonality of its flowers, and by its graceful, glaucous, lacy, bluish-green colored foliage.

No. 1276. Grapefruit tree. Judson J. McReynolds, Orlando, Fla., and Oliver L. Peacock, Fort Pierce. A new and distinct variety of grapefruit tree, characterized as to novelty by fruit having flesh of dark red appearance produced by the presence of several reddish pervading hues; permanence of the coloring through development of the fruit to maturity and to usual time of consumption, and the long keeping qualities of the fruit.

No. 1277. Rose plant. Herbert G. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the hybrid polyantha class, characterized particularly as to novelty by its abundant foliage; its many-flowered cluster habit of growth; the relatively large size and moderate fragrance of its flowers; the deep pink general color tonality of its flowers, and the relatively few prickles on the flowering stems and on the entire plant.

No. 1278. Apple tree. Walter D. Plough, Wenatchee, Wash., assignor to Columbia & Okanogan Nursery Co., Wenatchee. A variety of apple tree of the delicious type, characterized particularly by its earlier coloring and its brighter and lighter red color, which is distributed as an all-over blush rather than showing stripes.

No. 1279. Rose plant. Walter E. Lammerts, La Canada, Calif., assignor to Roseway Nurseries, Portland, Ore. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its vigorous, much-branched and upright habits of growth; by its abundance of glossy, dark green foliage; by the heavy tinge of pansy-purple color in the young growth and the maroon-red tinge in the young shoots; by its floriferousness and the relatively large size of its flowers, which are borne on relatively long cutting stems; by the distinctive claret-rose to delft-rose

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Dansville, N. Y.

general color tonality of its flowers, and by its relative freedom from prickles and thorns.

No. 1280. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its cluster-blooming habit; by its relatively long individual flowering stems; by the relatively large size of its flowers; by its abundance of bloom production throughout the growing season; by the distinctive color of its flowers; by the good petal substance of its flowers, with attendant long-lasting quality thereof, and by its abundance of relatively large, dark green, glossy foliage.

No. 1281. Camellia plant. John R. Lodge, Altadena, Calif., assignor to Edward B. Arnesen, of California Camellia Gardens, San Fernando. A new and distinct variety of camellia plant of the semidouble flower type, characterized particularly as to novelty by the distinctive form and variegated color of its flowers, and by the petal intricacy and texture of its flowers, each flower being predominantly white in color, with blotches and streaks of pink therein, and the petals being crepe textured, wavy and irregular in outline, with each petal deeply notched and laciniated, said petals retaining a wrinkled and creased appearance until the flower has matured and fallen from the plant.

No. 1282. Rose plant. Bogustus J. Rokos, Detroit, Mich. A new and distinct variety of rose plant characterized as to novelty by the shadings of the petals of the flowers, which are white at their edges and a light jasper red inwardly therefrom, shading to a primuline yellow at their bases.

No. 1283. Azalea plant. Aart Vuyk, Boskoop, Netherlands, assignor to Vuyk Van Nes, Boskoop. A new and distinct variety of azalea plant of the hardy evergreen type, characterized particularly as to novelty by the radiant scarlet general color tonality of its flowers, by the absence of fading of the flowers when exposed to the sun, by the erect and firm bearing habit of the flowers and by the freedom of production of flower buds on nearly every branch, with resulting abundance of blooms during the blooming season.

No. 1284. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the golden-yellow general color tonality of its flowers and the retention of their coloring throughout their entire life, by the relatively large size and perfect form of the flowers and their slow and symmetrical unfolding habit, by the distinctive and decorative arrangement of the stamens when the flowers are fully open and by its well-proportioned and well-balanced shiny and decorative foliage.

CASH prizes will be awarded by the Associated Bulb Growers of Holland to nurserymen who stage the best promotion displays of Dutch bulbs during the 1954 fall season. Judging will be based on photographs of displays sent in by dealers. Information and contest blanks can be obtained by writing to the firm at 29 Broadway, New York, N. Y.

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Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

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Out of 2½-in. rose pots, on own roots.
3 to 4 ins. \$ 60.00 Per 100 \$ 550.00
Shipped in Dixie cups same size as pots.
Order not less than 25.

SUGAR MAPLE

Native collected stock.
4 to 5 ft. 35.00 300.00
5 to 6 ft. 50.00 400.00
6 to 8 ft. 60.00 500.00
8 to 10 ft. 75.00 700.00
10 to 12 ft. 125.00 1000.00

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Out of 2½-in. rose pots.
6 to 8 ins. 25.00 225.00
Booking orders now for fall, 1954 and spring, 1955, delivery.



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Size	Per ctn.	Wt.	Per 10 ctns. or more, ea.
1 x1 x16 ins.	100	12	\$12.00 \$11.00
1 1/2 x1 1/2 x18 ins.	64	18	8.96 8.40
2 x2 x18 ins.	36	18	6.30 5.90
2 x2 x24 ins.	36	24	9.00 8.50
2 x2 x30 ins.	25	22	10.00 9.50
2 x2 x36 ins.	25	25	11.75 11.00
3 x3 x36 ins.	9	20	9.00 8.50
3 x3 x48 ins.	9	27	12.15 11.50
4 x4 x48 ins.	4	22	9.36 9.00
4 x4 x60 ins.	4	27	11.76 11.40

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Nurserymen Exhibit at Fair

The 20th county fair and floral fiesta held by San Mateo county, California, was best attended of any fair yet held and excelled in quality. Horticultural displays always predominate at this fair, as most of the visitors to the fair come to obtain information on the care of the yard. However, exhibits of flower growers of the area contributed much floral glamour to the show.

Retail ornamental nurserymen from across the bay as well as from all parts of the peninsula exhibited at the fiesta. Nearly all of them employed architects to design their exhibits, and practically all of them employed a garden construction organization to put them up.

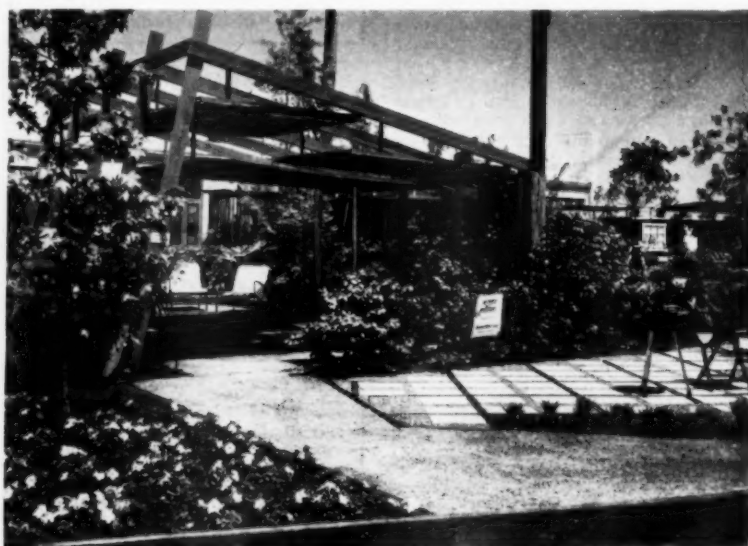
Among the exhibits which impressed fair visitors most was that of the Peters & Wilson Nursery, Millbrae, designed by Raymond Walter Lamb, a student in landscape design at the University of California. The plantings in this exhibit were varied, and the motif modern. A play yard, with the most up-to-date equipment, and a pet pen, in which there were chickens, rabbits and other pets, were features of a well-planned out-of-doors area, which included an attractive sheltered spot for relaxing. Color in the exhibit was provided by begonias, petunias (both single and double), bells of Ireland and other annuals.

The Christensen Nursery Co., Belmont, had the services of Herbert

S. Frank, Belmont landscape architect, for its three displays. One was a design suitable for the small lot; one was for large, elaborate home grounds and the third was for an average lot. Each display used translucent plastic for sunshades and windbreaks. By the use of different colors of plastic and different colored lights for illumination, a pleasing effect was obtained. The most elaborate of the three entries won many blue ribbons, which indicated the high regard the judges had for the design, the workmanship, the arrangement of plants and accessories and the excellent quality of the plants. The exhibit included a wading pool, a play area and both a formal and informal planting.

The Adrian Landscaping Service had a novel exhibit in the pools classification. A pool was indeed the central theme of the exhibit. It was built up from the ground, rather than sunken, and contained water lilies and fish. Rising up from the center of the pool was a totem pole of cast wrought iron finished in a bright gold color. Effective lighting displayed it, and the general effect was eerie or exotic, depending on the state of mind of the observer. One of a great number of exhibits entered in the pools classification, it was given first place in its class.

Among the many other excellent exhibits in the show were those by gardeners' clubs, comprised of gar-



Peters & Wilson Nursery, Millbrae, Calif., displayed this outdoor garden at the San Mateo county fair and flower fiesta. Shade, windbreaks and barbecue areas are featured. James H. Wilson, of this nursery, is president of the California Association of Nurserymen.

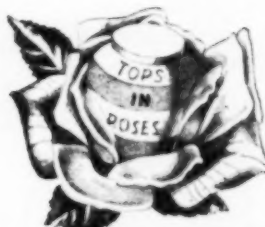
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deners serving estates in the San Mateo area. Exhibits erected by students of vocational schools aroused much interest on the part of nurserymen looking for new ideas and for apt beginners whom they might employ at a later date.

Those who have attended previous fiestas have been astonished at the improvement the floral show has made in the past two or three years. In this show evidence of careful planning was apparent not only in the various exhibits but also in the general arrangements for the show and the appearance of the grounds. Aisles were wider and kept cleaner. Lighting was improved so that it was more effective and at the same time less noticeable and distracting. Plants were in good condition at all times, so that those who attended the fiesta on the last day saw just as fresh a show as those who attended on the first day. Much credit for the show's improvements goes to William Wilson and Doug Bayliss, who did the planning. W. B. B.

CALIFORNIA COLLEGE MOVE

The ornamental horticulture facilities of California State Polytechnic College, San Luis Obispo, Calif., have been moved to a new site, according to a recent release.

The move will clear a location on the campus for other new construction and, at the same time, will improve the facilities available for ornamental horticulture students in the learn-by-doing phase of their studies. Most of the landscaping and planting of the large college campus also is done by students majoring in ornamental horticulture, as part of their scheduled course work.

The new facilities for ornamental horticulture students are located on the foothill slope of the Santa Lucia mountains. There will be an expanded use of both lath and glass houses at the new site.

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CALIFORNIA NOTES

Gov. Goodwin J. Knight has appointed William C. Jacobsen, Sacramento, director of the state department of agriculture. Mr. Jacobsen is a veteran of more than 34 years of service with the department and has served as acting director since the retirement of A. A. Brock several months ago.

The Rancho Garden & Pet Shop, owned and operated by W. A. Bettschart and L. W. Harrison in the Rancho shopping center at Los Altos, has completed another expansion of its sales area, having added a 1,500 square foot lath house for the display of the ornamentals sold by the nursery. This is the third expansion in two years of operation.

To assure water for its reservoirs to furnish water for farm irrigation and home consumption, the Santa Clara board of supervisors has approved an expenditure of \$35,000 for cloud seeding during the coming winter months. The work will be done by the Weather Modification Co., Redlands. Although cloud seeding is not generally regarded as effective, in Santa Clara county it is agreed that there has not been so much water in reserve the two past years without cloud seeding as there was after the rainy season of 1951-1952 when seeding was done. Plans are to confine the rains to the reservoir watersheds, and thus the seeding should not affect the farm or urban areas of the county.

At San Bruno, subdividers may soon be required to plant at least one tree on the property of each house that they build. Such a requirement is up for consideration by the city council and has found no opposition to date.

Kenneth F. Wilson, who for many years operated a garden supply store at Redwood City, is now calling on the trade for an agricultural chemical company.

The Schmidt Nursery, Palo Alto, is adding about 1,000 square feet of lath house in an expansion of its nursery sales display area.

One of the effects of progress on the peninsula is the destruction of one of the forests of rare and exotic trees on the Darius Ogden Mills estate, at Millbrae. With the trees valued at thousands of dollars when planted years ago, it is reported by nurserymen that it would be impossible to set a value on them today. Because of their size, the great expense of moving them and the lack of estates large enough to use them properly, most of the trees were just



NAM KHAN, F.C.C., R.H.S.

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One of the stud plants from the Rothschild collection at Exbury.

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pushed aside by a bulldozer and carried off to the dumps. Among them was a rare cedar of Lebanon, said to be the only one of its type in the United States. Another was an oak of special interest to plantsmen, because during the entire 50 years it was on the estate it continued to be dormant in the summer and to grow actively in the winter months—the reverse of the growth habits of local oaks but in continuation of the habits it developed when it was on the other side of the equator. The trees and shrubs were removed to make way for a subdivision. W.B. B.

L. C. GATEWOOD has purchased the Leavenworth Nurseries, Leavenworth, Kan., from his father-in-law, Carl Holman, and also the Holman Nurseries, Leavenworth, from the estate of the late Nathan Holman, brother of Carl. The two Holmans were sons of the first nurseryman in Kansas.

WHEN Rozan Marie Goldstein, only child of Harold Goldstein, of Kunderd Gladiolus Farms, Goshen, Ind., was married August 8 to Philip Kotek, of Danville, Ill., gladiolus blooms formed all of the elaborate floral decorations for the event.

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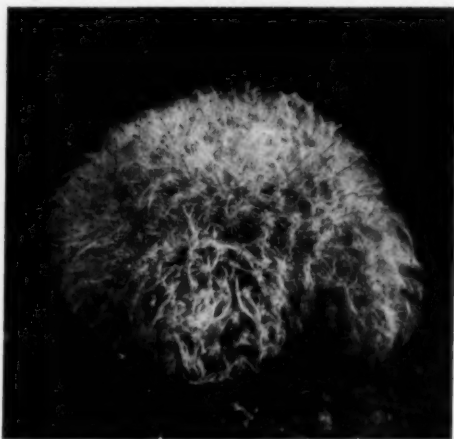
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RADIATION CHECKS PLANT WILT DISEASE

A fungus-caused plant disease, fusarium wilt, which attacks a wide variety of plants, has been partly checked by the effects of ionizing radiation in experiments conducted by Dr. Paul E. Waggoner, plant pathologist at the Connecticut agricultural experiment station, Storrs, Conn.

The attempt to control plant diseases by use of atomic energy is not new, and some success has been reported from several institutions where such research is in progress. In all of these cases, however, disease control has been brought about by the development of plant mutations. A few of the plants subjected to radiation mutate or change genetically in such a way that they become resistant to the disease. This disease resistance can be inherited by the next generation of plants.

In the Connecticut experiments, no such genetic change has occurred. Rather, the effect of radiation in producing disease resistance appears to be a direct one. All of the plants, not just a few mutations, become resistant to some extent.

The approach tried at first was specific toxicity — trying to find a dose of radiation which would control the disease without killing the plant. These experiments were unsuccessful; in all cases the plants died before the disease was checked. However, one interesting discovery was made — plants nearer the radiation source were more severely diseased than those at a distance.

The same effect was observed at New Haven, where extremely high dosages of X-ray radiation were used. Plants irradiated in the morning were inoculated with the wilt fungus the

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same afternoon, and all proved to be highly susceptible to the disease.

However, when a low radiation dose was used and disease inoculation delayed until several days after the plants were exposed to radiation, the effect was reversed. Disease resistance was 50 per cent greater than in plants which received no radiation. With excessively high dosages and the long time lag between irradiation and inoculation, the plants were almost completely immune to disease. However, the stunting effect of the high radiation dose was great, while, with smaller dosages, it was negligible.

If Dr. Waggoner's experiments are successful on a larger scale, there is a possibility of irradiating farm crops to protect them from wilt diseases. With small plants, this could be done easily and somewhat inexpensively.

INJECTIONS KILL GRUBS

Destroying the Japanese beetle grubs in balled nursery stock is cheaper and easier with insecticide injections recently developed by the agricultural research service of the United States Department of Agriculture and cooperating state regulatory officials and nurseries.

The treatment consists of shooting an ethylene dibromide solution into the soil around plant roots with an over-size hypodermic needle. Plant quarantine inspectors must be present during injections, as with other authorized treatments.

Treated plants are certified as safe for shipment or sale outside the area under United States Japanese beetle quarantine regulation.

PLAN BEGONIA SHOW

"Begonias—Old and New" will be the theme of the 22nd annual begonia and shade plant show, sponsored by the American Begonia Society, to be held at the New Clark hotel, Los Angeles, Calif., September 4 to 6. The annual flower show, one of the largest shade plant shows held each year in the United States, will be open to the public from 10 a. m. to 10 p. m. on September 4 and 5 and from 10 a. m. to 4 p. m. on September 6. The admission is 50 cents.

THE WALTHAM field station of the University of Massachusetts held its annual field day Wednesday, August 4. Although thousands of persons looked over the vast grounds, it was noticeable that there were less equipment and fewer spectators and participants in the various competitions than in some former years.



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Certain success with S-37 rootstock as base.

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INDIANA SUMMER MEETING

[Continued from page 13]

Timely irrigation will give profitable responses almost every year. Even wet years usually have periods of drought which reduce final yields. The plant cannot ever make up for growth lost during such a period.

To illustrate the immense quantities of water which must be furnished to the root system, the film stated that 20 tons of water are required to produce a bushel of corn and 900 pounds of water to produce one pound of dry hay. Too much water can be as unfavorable as too little.

Sprinkler irrigation has an advantage over surface application of water in not requiring soil leveling or contouring and in creating no problem of ditches to be crossed.

Fertilizer can be added at the source of the irrigating system and even application of the fertilizer can be made. Twice as much fertilizer in solution can be utilized by a plant as by surface application of the dry material, the film stated.

The film was of special interest because Indiana has had two consecutive years of critical moisture shortage in most areas.

A pleasant dinner and open house at Bohling's Nursery were social highlights of the day. Informal get-togethers contribute much to the success of the summer meetings, members of the group have found. Such meetings as this at various Indiana nurseries have been well attended because of the opportunities they offer to exchange information in a friendly atmosphere.

Executive Meeting

A meeting of the executive committee was held, at which tentative plans were approved for the 3-day winter meeting, which will begin Tuesday, January 16, at Purdue University. The Indiana association will assist with proposed landscaping of the state capitol building, at Indianapolis, if provisions can be made for a nonpolitical permanent maintenance program. Without such provision the finest planting could soon deteriorate and thus be no credit to the "Plant Indiana" movement.

Friday morning was devoted to demonstrations of tractor equipment for mowing, soil preparation and grading and of locally designed equipment for root pruning and shrub digging. A small rotary tiller was also demonstrated.

The final social gathering of the group was at a buffet luncheon served at the Munster city park.

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For modern landscape nursery business located in community with excellent opportunities. Must have own car. Must have training in plant materials from reputable landscape school or practical experience with same and training in, or experience with, principles of design. Apply by letter stating all experience, age, references and enclosing picture. State earliest date available.

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SITUATION WANTED

With mail-order or retail nursery. Twenty-five years background combined in both fields. Group store experience in sales management, distribution, shipping, inventory control, foreign and domestic purchasing, catalog and news ads. Experienced in all phases of mail-order operation. Know midwestern and southern California materials. Married, aged 48. Prefer midwest or southwest but will consider other areas. Salary open. Address Box 101, care of American Nurseryman.

HELP WANTED

LANDSCAPE ARCHITECT

Wanted for one of the oldest and largest nurseries in the midwest located in northern Ohio. Please state qualifications and salary expected in first letter. Immediate and full-time employment. Information held strictly confidential. Reply to Box 89, care of American Nurseryman.

SITUATION WANTED

Married man under 30, now employed, wants job where hard work and loyalty may earn advancement. Experienced in growing end of large nursery in midwest, also in retail nursery, floral sales and design. Good education. Please send information about job offered, housing and school situation. Excellent references offered. Write to Box 92, care of American Nurseryman.

HELP WANTED

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Wanted for new nursery sales development being built in connection with a modern garden center in the southeast's most progressive and comfortable year-round city, 1,050-ft. altitude. Horticultural degree, some nursery sales, planning and promotional experience with aggressiveness desired. No bargain-counter type wanted. Send full particulars, including photograph, to

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Salesman with ability to design, sell and supervise landscape work. \$300 per month drawing account to start.

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Experienced superintendent needed by small midwestern landscape nursery. Should be capable of managing men and willing to act as working foreman. Sales experience helpful in advising customers. Older man acceptable. Position open September 1. An excellent opportunity for the right person. Write Box 90, care of American Nurseryman.

HELP WANTED

Have you an employment problem? Space in these columns is available at low cost to nurserymen who are seeking prospective employees. A want ad in the American Nurseryman puts your job offering before interested and qualified applicants at a fraction of what it would cost you to contact them in any other way.

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Propagator. Eastern nursery interested in man to take over propagation department. Please advise age, experience and salary expected in first letter. Write to Box 97, care of American Nurseryman.

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One of the oldest and largest landscape contracting and nursery firms in Philadelphia has an opening for a qualified man. Highly paid and permanent position, with salary and bonus. State age and experience.

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Retail nursery, landscape and tree surgery business. Established over 20 years. 6½ acres on state highway. 7-room house with baths and kitchen. Warehouse, trucks and tree surgery equipment in excellent condition. 2 acres in nursery stock, mostly shade and ornamental trees and flowering shrubs. Brook. Located in central New Jersey in fast-growing suburb. Write to Box 98, care of American Nurseryman.

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SITUATION WANTED—Young man with 8 years' experience in the landscape and nursery business as salesman and in designing, care and planting of evergreens and deciduous stock. Very proficient in the drawing of original, distinctive plans. Ornamental stone work a specialty. Head of own landscape company for 3 years. Write Box 192, care of American Nurseryman.

HELP WANTED — Landscape salesman with ability to sell and design. Excellent opportunity. CAVALIER NURSERY, INC., Virginia Beach, Va.

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Per 1000
Streamliner \$14.00
Superfection 16.00
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Plants are well cleaned and tied #1 to the bunch. Packed in sphagnum moss for shipping.

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A NEW BLUE SEEDLESS GRAPE, nearly as large as Concord, but much sweeter, harder, and heavier bearing than Concord. Just as vigorous and healthy. Fifteen years under test. Who wants to buy this valuable grape with its sale propagating rights?

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PARROT TULIPS, 7½c ea.
Blue Parrot, blue; Fantasy, rose inside salmon; Orange Favorite, orange; Sunshine, bright yellow; Therese, fiery rose-scarlet, large-flowering.

REMBRANDT TULIPS, 7½c ea.
Cordell Hull, variegated white and red.

COTTAGE TULIPS, 7½c ea.
Marjorie Bowen, pink and salmon; G. W. Leak, crimson and orange.

FOSTER TULIPS, 10c ea.
Red Emperor, large brilliant scarlet.

HYACINTHS, bedding size, 15 to 16 cm., 10c ea. Pink Pearl, deep rose; La Victoire, brilliant carmine-red; L'Innocence, pure white; Bismarck, sky-blue; King of the Blues, deep blue; City of Haarlem, golden-yellow.

CROCUS, blooming size, 7 to 8 cm., 4c ea. King of the Blues, King of the White, Golden Yellow and King of the Striped, white and blue.

MUSCARI (Grape Hyacinth), 2c ea. SCILLA, champ. mixed, 2½c ea.

SNOWDROPS, 8 to 9 cm., 4c ea.

GIANT YELLOW TRUMPET DAFFODILS, 6½c ea. King Alfred, Solaris, Golden Harvest and Music Hall.

DUTCH IRIS, 8 to 9 cm., 5c ea. Golden Harvest, White Excelsior and Wedgwood.

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HEMEROCALLIS

Send for our new wholesale listing of 40 leading varieties.

RIEDEL PLANT CO.

Experiment, Ga.

NEW HEMEROCALLIS (DAY LILIES)

Heavy field divisions.

	Per doz.	Per 100
Crocus, rich amber-yellow.....	\$5.75	\$30.00
Crusader, Indian red.....	5.75	30.00
Dido, clear, soft apricot.....	5.75	30.00
Indian Sunset, soft chestnut-brown.....	5.50	25.00
J. A. Crawford, rich apricot-yellow.....	4.75	20.00
Linda, pale amber-yellow.....	5.50	25.00
Magnificence, Chinese coral.....	5.75	30.00
Mongolia, bronzy Chinese coral.....	5.50	25.00
Morocco Beauty, velvety maroon-chestnut.....	4.75	20.00
Rajah, high burnt orange.....	5.50	25.00
Stromboli, old gold.....	5.50	25.00
Summer Pride, ruby-red, golden throat.....	5.50	25.00
Tasmania, Chinese coral, golden-yellow center.....	4.75	20.00
The Gem, deep orange-yellow.....	4.75	20.00
25 or more plants of one variety at 100 rate.		

THE WAYSIDE GARDENS CO.
Mentor, O.

DAY LILIES

	Per 10	Per 100
Autumn Red, an open, velvety red.....	\$ 3.50	
Canary, satiny canary-yellow. A much-improved, lighter Hyperion.....	15.00	
Matador, a bright, rich red.....	5.00	
Moonray, pale yellow with halo of Pompeian red, recurved petals.....	5.00	
Peachblow, very fine salmon-peach.....	3.50	
Persian Princess, deep red to purple. A choice variety.....	3.50	
Stalwart, rich blooming tawny-orange Starlight, tall, early-blooming with large flowers of the palest yellow.....	5.00	
Talisman, true Talisman-pink.....	5.00	
Theron, lovely port-wine. One of the finest.....	3.50	

SUNNY BORDER NURSERIES
Kensington, Conn.

DAY LILIES

	Per 10	Per 100
Fulva Maculata, copper-orange.....	\$2.50	\$15.00
George Yeld, bronzy-apricot.....	2.50	15.00
Hyperion, large yellow.....	3.00	18.00
J. T. Russell, yellow and crimson.....	2.50	15.00
Linda, yellow and rose.....	2.50	15.00
Mayor Starzynski, bronze-rose.....	5.00	
Seven Seas, rosy-brown.....	2.50	15.00
and yellow.....	2.50	15.00
Tejas, bright yellow throat.....	2.50	15.00
5 at 10 rate; 25 at the 100 rate.		

GRUNDY'S GARDENS
Anton, Tex.

EVERGREENS

FALL OFFERING OF EVERGREEN SEEDLINGS

Cash, please!

	Per 100	Per 1000
Alpine Fir, 3-yr., 4 to 6 ins.	\$ 5.00	....
American Arborvitae, 2-yr., 2 to 4 ins.	3.00	\$20.00
3-yr., 4 to 6 ins.	4.00	30.00
4-yr., 6 to 8 ins.	5.00	40.00
American Larch, 3-yr., 12 to 18 ins.	5.00	40.00
Austrian Pine, 2-yr., 2 to 4 ins.	3.00	20.00
Banks Pine, 2-yr., 2 to 4 ins.	3.00	20.00
Black Hills Spruce, 2-yr., 1 to 2 ins.	2.50	15.00
Colorado Blue Spruce, 2-yr., 1 to 2 ins.	2.50	15.00
2-yr., 2 to 4 ins.	3.00	20.00
3-yr., 4 to 6 ins.	4.00	30.00
Concolor Fir, 2-yr., 2 to 4 ins.	5.00	....
3-yr., 4 to 6 ins.	10.00	....
Douglas Fir, Blue, 2-yr., 2 to 4 ins.	3.50	25.00
3-yr., 4 to 6 ins.	4.50	35.00
Engelmann Spruce, Blue, 2-yr., 1 to 2 ins.	2.50	15.00
European Larch, 2-yr., 6 to 8 ins.	4.00	30.00
3-yr., 12 to 18 ins.	5.00	40.00
Juniperus scopulorum, 2-yr., 2 to 4 ins.	4.00	....
Juniperus virginiana, 2-yr., 2 to 4 ins.	4.00	....
Mugo Pine (Dwarf), 2-yr., 2 to 4 ins.	3.00	20.00
3-yr., 4 to 6 ins.	4.00	30.00
Norway Spruce, 3-yr., 4 to 8 ins.	4.00	30.00
Ponderosa Pine, 2-yr., 2 to 4 ins.	2.50	15.00
Red Pine, 1-yr., 1 to 2 ins.	2.50	15.00
2-yr., 2 to 4 ins.	3.00	20.00
Scotch Pine, 4-yr., 4 to 6 ins.	3.00	20.00

C. WILSON'S NURSERY
Pembine, Wis.

FIELD TRANSPLANTS—FALL, 1954

	Each
Chamaecyparis plumosa, 6 to 12 ins.	\$0.20
12 to 18 ins. ....	.25
Chamaecyparis plumosa aurea, 6 to 12 ins. ....	.20
12 to 18 ins. ....	.25
Euonymus coloratus, 12 to 18 ins. ....	.25
Euonymus alatus, 12 to 15 ins. ....	.22
Juniper, Andorra, 6 to 12 ins. ....	.22
Juniper, Blue Hetz, 6 to 12 ins. ....	.22
12 to 15 ins. ....	.30
Juniper, Irish, 6 to 12 ins. ....	.22
12 to 15 ins. ....	.27
Juniper, Golden Pfitzer, 6 to 12 ins. ....	.22
Taxus adamsi, 6 to 12 ins. ....	.22
Taxus andersoni, 6 to 12 ins. ....	.22
Taxus browni, 6 to 12 ins. ....	.22
Taxus capitata, cuttings, 6 to 12 ins. ....	.22
Taxus cuspidata, 4 to 6 ins. ....	.16
6 to 12 ins. ....	.18
Taxus hicksi, 4 to 8 ins. ....	.18
8 to 12 ins. ....	.22
Taxus hillii pyramidalis, 6 to 12 ins. ....	.25
Taxus hunnwelliana, 6 to 12 ins. ....	.25
Taxus monti, 6 to 12 ins. ....	.25
Thuja elegantissima, 6 to 12 ins. ....	.20
Th. occidentalis compacta, 6 to 12 ins. ....	.20
Th. occ. douglasii aurea, 6 to 12 ins. ....	.20
Th. occ. frenchi, 6 to 12 ins. ....	.20
Th. occ. globosa compacta, 6 to 12 ins. ....	.20
Th. occ. pyramidalis, 6 to 12 ins. ....	.20
Th. occ. wareana, 6 to 12 ins. ....	.20
Th. occ. woodwardi, 6 to 12 ins. ....	.20
2-YR. Juniper, Andorra, 12 to 15 ins. ....	.35
Juniper, Irish, 12 to 18 ins. ....	.35
18 to 24 ins. ....	.45
Juniper, Pfitzer, 6 to 12 ins. ....	.30
12 to 18 ins. ....	.40
Juniper, Tamarix, 12 to 18 ins. ....	.25
Th. elegantissima, 6 to 12 ins. ....	.25
12 to 18 ins. ....	.30
Th. occ. elwangeriana, 6 to 12 ins. ....	.20
Th. occ. frenchi, 6 to 12 ins. ....	.25
12 to 18 ins. ....	.30
Th. occ. nigra, 6 to 12 ins. ....	.25
12 to 18 ins. ....	.35
18 to 24 ins. ....	.35
Th. occ. vernaenana, 6 to 12 ins. ....	.20
12 to 18 ins. ....	.25
Th. occ. wareana, 6 to 12 ins. ....	.25
12 to 18 ins. ....	.30
Th. occ. woodwardi, 6 to 12 ins. ....	.25

CRYSTAL LAKE EVERGREEN NURSERY
R. R. 3 Slippery Rock, Pa.

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS

Each—Per 100 Per 1000

Arborvitae, American	
Dark Green.....	\$0.20 \$0.18
Arborvitae, Globe Woodward.....	.20 .18
Euonymus alatus compactus, 2-yr. pots.....	.18 .16
Juniperus chinensis pfitzeriana, 1-yr. pots.....	.24 .22

HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

Arborvitae, American	
Dark Green.....	.10 .09
Arborvitae, elegantissima.....	.10 .09
Arborvitae, Globe Woodward.....	.10 .09
Arborvitae, Pyramid.....	.11 .10
Boxwood, Korean.....	.09 .08
Euonymus alatus compactus.....	.09 .08
Euonymus erectus.....	.07 .06
Euonymus vegetus.....	.07 .06
Juniper, Swedish.....	.10 .09
Juniperus chinensis pfitzeriana, 6 ins. ....	.13 .12
Juniperus glauca hetzli.....	.11 .10
Taxus cuspidata.....	.10 .09
Taxus intermedia.....	.11 .10
Taxus media, spreading.....	.11 .10

Terms: 2% discount and free packing for cash with order. Our stock guaranteed 100% satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREEN BARGAINS!

	Per 100
American Arborvitae, 3 to 4 ft.	\$150.00
Norway Spruce, 3 ft.	150.00
2 to 4 ft.	225.00
Pfitzer Juniper, 2½ to 3½ ft. XXX.....	250.00
Red Barberry, very bushy, 18 to 24 ins.	45.00

Blue Hetz Juniper, spreaders

3 to 4 ft. \$125.00

Pfitzer Juniper, 3 ft. 125.00

Three times transplanted, quality trees.

HEISE'S NURSERY

Washtenaw Rd. Phone: 28920 Ypsilante, Mich.

Liners grown in outside beds for 1, 2 and 3 years as specified.

Each	
Azaleas: Amoena, Claret, Ethelwyn, Flame, Gaiety, Greeting, Herbert, Hinodegiri, Hino-Crimson, Hinomayo, and Salmon Beauty, 1-yr.	\$0.25
Buxus arborescens, 2-yr. ....	.20
Buxus sempervirens, 1-yr. ....	.15
Chamaecyparis filifera, 2-yr. ....	.25
Chamaecyparis obtusa, 2-yr. ....	.20
Chamaecyparis pisifera, 2-yr. ....	.20
Chamaecyparis plumosa aurea, 2-yr. ....	.20
Chamaecyparis plumosa, 2-yr. ....	.20
Cotoneaster salicifolia, 1-yr. ....	.20
Ilex aquifolium, 1-yr. ....	.50
Ilex aquifolium pyramidalis, 1-yr. ....	.50
Ilex cornuta (male), 1-yr. ....	.50
Ilex cornuta (female), 1-yr. ....	.50
Ilex cornuta burfordii, 1-yr. ....	.50
Ilex crenata, 1-yr. ....	.15
Ilex crenata, 2-yr. ....	.20
Ilex convexa, 1-yr. ....	.15
Ilex convexa, 2-yr. ....	.20
Ilex rotundifolia, 1-yr. ....	.15
Ilex glabra, 1-yr. ....	.15
Ilex opaca (female), 1-yr. ....	.50
Ilex opaca Arden, 1-yr. ....	.50
Juniper, Armstrong, 2-yr. ....	.35
Juniper, Hetz, 2-yr. ....	.35
Juniper, Pfitzer, 2-yr. ....	.35
Juniper, Pfitzer, 3-yr. ....	.40
Ligustrum lucidum repandens, 1-yr. ....	.30
Ligustrum lucidum erectum, 1-yr. ....	.30
Ligustrum lucidum erectum, 2-yr. ....	.35
Osmanthus aquifolium, 1-yr. ....	.30
Picea pungens glauca, 5-yr. T. ....	.40
Prunus laurocerasus schipkaensis, 1-yr. ....	.40
Pyraecantha occidentalis lalandi, 1-yr. ....	.30
Taxus baccata aurea, 2-yr. ....	.25
Taxus brownii, 2-yr. ....	.25
Taxus cuspidata, 2-yr. ....	.25
Taxus hatfieldi, 2-yr. ....	.25
Taxus hicksii, 2-yr. ....	.20
Taxus, Vermeulen, 2-yr. ....	.20
Thuja occidentalis globosa, 2-yr. ....	.20
Thuja occidentalis aquifolium, 2-yr. ....	.25
Thuja occidentalis pyramidalis, 2-yr. ....	.20
Thuja canadensis, 2-yr. ....	.30
Minimum 25 of a kind, please. Packing free. Write for our complete list of liners and finished stock.	

DEL-MAR-VA NURSERIES
Lincoln, Del.

Per 100	Per 1000
2-YR. EVERGREEN SEEDLINGS	
Austrian Pine (Cert. Alps), 1 to 9 ins.	\$ 7.25 \$36.25
Colorado Blue Spruce, seed from blue trees, 3 to 7 ins.	7.95 37.50
Douglas Fir, 6 to 10 ins.	8.75 41.50
Japanese Black Pine, 6 to 12 ins.	7.75 36.75
Scotch Pine (Cert. Austrian), 6 to 12 ins.	7.75 36.50
Scotch Pine (West Europe), 4 to 9 ins.	7.25 36.25
3-YR. EVERGREEN SEEDLINGS	
Colorado Blue Spruce, seed from blue trees, 6 to 12 ins.	12.75 61.50
Douglas Fir, 6 to 12 ins.	10.75 51.00
Mugo Pine (Cert. Tyrolean), 3 to 8 ins.	10.75 51.50
Norway Spruce, atrain, 6 to 12 ins.	9.00 46.50
Scotch Pine (Cert. Riga), 12 to 18 ins.	10.75 46.75
4-YR. EVERGREEN SEEDLINGS	
Balsam Fir, 4 to 7 ins.	8.75 41.00
Black Hill Spruce, 4 to 14 ins.	15.00 75.00
Colorado Blue Spruce, transplants, seed from blue trees, 2 and 2-yr., 6 to 9 ins.	20.00
We pay parcel post up to 4th zone terms.	

Remittance with order.
NEUNER'S EVERGREEN NURSERY
368 Eicher Rd., Rt. 866
Emsworth, Pittsburgh 2, Pa.

Per 100	Per 1000
NURSERY STOCK	
Extra-heavy and Ready for the Field	
Taxus brownii, 3-yr., TT, 10 to 12 ins.	\$50.00
Taxus cuspidata, 3-yr., TT, 10 to 12 ins.	45.00
Taxus cuspidata capitata, 3-yr., TT, 10 to 12 ins.	55.00
Taxus media ovata, 3-yr., TT, 10 to 12 ins.	35.00
1-YR. FIELD BEDS	
Euonymus vegetus, 2-yr., T, 10 to 12 ins.	25.00
Euonymus vegetus, 3-yr., TT, 12 to 15 ins.	35.00
Ribes alpinum, 1-yr., T, 6 to 10 ins.	35.00
Taxus brownii, T, 6 to 10 ins.	35.00
Taxus cuspidata, T, 8 to 10 ins.	30.00
Taxus cuspidata capitata, T, 8 to 10 ins.	35.00
Taxus cuspidata nigra, T, 8 to 10 ins.	30.00
Taxus hicksii, T, 6 to 10 ins.	30.00
FRED P. STROHL 1404 N. Anthony Blvd. Fort Wayne, Ind.	

EVERGREENS
300 Pfitzer Juniper, 36 to 48 ins.
300 Hetz Juniper, 30 to 36 ins.
Three times transplanted.
HOLM'S LANDSCAPE NURSERY
Box 113-A Homewood, Ill.

EVERGREENS B&B

Each	
950 American A. V., 2 to 3 ft.	\$2.00
255 American A. V., 3 to 4 ft.	3.00
200 American A. V., 4 to 4 1/2 ft., heavy.	4.00
190 Andorra Juniper, 15 to 18 ins.	1.50
1100 Andorra Juniper, 18 to 24 ins.	2.00
60 Andorra Juniper, 3 to 4 ft.	3.00
300 Blue Hetz Juniper, 18 to 24 ins.	2.00
1300 Blue Hetz Juniper, 2 to 2 1/2 ft.	2.50
365 Blue Hetz Juniper, 2 1/2 to 3 ft.	3.50
80 Irish Juniper, 2 1/2 to 3 ft.	2.25
100 Irish Juniper, 3 to 4 ft., heavy.	2.75
350 Pfitzer Juniper, 18 to 24 ins.	2.25
40 Pfitzer Juniper, 4 ft. heavy.	4.00
1400 Pyramidal A. V., 2 to 3 ft.	2.25
900 Pyramidal A. V., 3 to 4 ft.	2.75
1100 Woodward Globe A. V., 1 to 1 1/4 ft., 1.50	
650 Woodward Globe A. V., 15 to 18 ins.	2.00
All evergreens B&B at list prices. Properly sheared. Visitors invited, but call or write in advance, so we will be here. Phone: 186JX.	

WHERRY'S NURSERIES, St. Marys, W. Va.

Each	
Excellent quality. For fall shipment. Car and trailer loads only, with Japanese Beetle certificate.	
Taxus capitata (Upright Yew)	
3 to 3 1/2 ft.	\$6.25
3 1/2 to 4 ft.	7.50
4 to 4 1/2 ft.	9.00
Larger sizes up to 9 ft.	
Taxus cuspidata (Spreading Yew)	
1 1/2 to 2 ft.	3.85
2 to 2 1/2 ft.	4.85
Larger sizes up to 4 1/2 ft.	
Taxus hicksii (Hicks Yew)	
1 1/2 to 2 ft.	3.25
2 to 2 1/2 ft.	4.00
2 1/2 to 3 ft.	5.00
Larger sizes up to 5 ft.	
Also Taxus hatfieldi, T. intermedia, T. vermeulen, and others. Write for complete list.	

BULK'S NURSERIES
Babylon, L. I., N. Y.

JUNIPERS

Each	per	per
Each	100	1000
All listed stock is sheared, transplanted and B&B.		
300 Juniperus virginiana canaerti, XXX, 2 1/2 to 3 ft.		
400 J. virginiana canaerti, XXX, 3 to 3 1/2 ft.		
250 J. virginiana canaerti, XXX, 3 1/2 to 4 ft.		
200 J. virginiana canaerti, XXX, 4 to 4 1/2 ft.		
200 J. virginiana burki, XXX, 3 to 4 ft.		
200 J. virginiana glauca, XXX, 3 to 4 ft.		
100 J. virginiana glauca, XXX, 4 to 5 ft.		
200 J. chinensis keteleeri, XXX, 3 1/2 to 4 ft.		
200 J. chinensis keteleeri, XXX, 4 to 4 1/2 ft.		
400 J. chinensis mascula, XXX, 3 to 4 ft.		
300 J. chinensis pfitzeriana, XXX, 15 to 24 ins.		
400 J. chinensis pfitzeriana, XXX, 24 to 30 ins.		
WAYNE HILL NURSERY R. R. 7 Hamilton, O.		

LINING-OUT STOCK

Each	per	per
Each	100	1000
Ilex crenata, field beds, 3-yr., T., 6 to 8 ins.	\$0.30	\$0.25
2-yr., S., 4 to 6 ins. ....	.05	
1-yr., S., 2 to 4 ins. ....	.03	
Ilex convexa, field beds, 3-yr., T., 6 to 9 ins. ....	.35	.30
Juniperus pfitzeriana glauca, field beds, 3-yr., T., 8 to 10 ins. ....	.35	.32
Taxus cuspidata, field beds, 3-yr., T., 8 to 10 ins. ....	.35	.35
2-yr., T., 6 to 8 ins. ....	.25	.25
Taxus hicksii, field beds, T., 2-yr. ....	.25	.25
Cash with order. Free packing.		
BROOKFIELD GARDENS U. S. Rt. 46 Delaware, N. J.		

PITZER JUNIPERS

Each	per	per
Each	100	1000
Excellent quality.		
2 to 2 1/2 ft.	\$2.80	\$2.50
2 1/2 to 3 ft.	2.20	2.90
YEWs—Excellent quality.		
Browns, 2 to 2 1/2 ft.	6.00	5.50
Hatfield, 1 1/2 to 2 ft.	5.00	4.50
CANADIAN HEMLOCK		
2 1/2 to 3 1/2 ft.	4.50	4.00
CHINESE JUNIPERS (seconda)		
3 1/2 to 4 ft.	2.50	2.00
4 1/2 to 5 1/2 ft.	3.50	2.50
All stock XXX, B&B.		
ROSEBUD NURSERIES Rt. 83 Chicago Heights, Ill.		

IRISH YEW

Each	per	per
Each	100	1000
Taxus hibernica fastigiata, your choice of green or golden.		
4 to 6 ins., from beds, TT.	20c ea.	
6 to 8 ins., from beds, TT.	30c ea.	
8 to 12 ins., TTT.	40c ea.	
Minimum order, 25 plants of a size and variety. Lightweight, careful packing, free. Cash with order. If mail shipping desired, add 10 per cent for postage. Immediate shipment.		

RICHARD P. RESSEL NURSERIES
Mulino, Ore.

EVERGREENS
Pfitzer Junipers, 15 to 24 ins., \$75.00 per 100. 24 to 30 ins., \$100.00 per 100. Priced to move 3,000.
A. J. BUTTERFIELD GREENHOUSES
Farmington, Mo.

ROOTED CUTTINGS

We have a surplus of the following fine, well-rooted cuttings: Arborvitae globosa, A. pyramidalis, A. Tom Thumb, and A. nigra; Taxus hicksii; Retinospora plumosa; Juniperus glauca hetzi; Ilex crenata and I. bulata.

25% cash on C.O.D. orders.
\$7.00 per 100
\$65.00 per 1000.

ESHAM'S NURSERIES
Rt. 2
Millsboro, Del.

HEAVY POTTED TAXUS LINERS

From 3 1/4 x 4-in. rose pots; potted spring of 1953; carried under lath with overhead irrigation. Per 100
6 to 8 ins. \$20.00
8 to 10 ins. 38.00
3220 Taxus cuspidata 50
2650 Taxus media 50
1380 Taxus hicksii 50
Packing at \$2.00 per 100.

THE LEICHHARDT HILLVIEW NURSERY
Nashville Rd. Bowling Green, Ky.

Canada Hemlock Each
10 ins., TT, heavy. \$ 6.25
12 to 18 ins., heavy. 8.00
3 ft., B&B, heavy. 3.00
4 ft. 4.00
6 to 7 ft. 7.50
Carolina Hemlock 10.00

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.
Phone: Yaphank 4-3444

LINING-OUT STOCK

Per 100	Per 1000
2-YR. BEDS	
Arborvitae, Green	\$0.27 .25
Taxus cuspidata ....	.27 .25
1-YR. BEDS	
Taxus cuspidata ....	.17 .15
Taxus hicksii ....	.17 .15
50 of one variety at 100 rate. 300 of a variety at 1000 rate.	

DRAKE'S NURSERIES
G-4342 Branch Rd. Flint 6, Mich.

TRANSPLANTED AND BEDDED STOCK

Per 100	Per 1000
Euonymus alatus, 8 to 10 ins.	30.00
Euonymus alatus, 12 to 15 ins.	30.00
Euonymus alatus compactus, 6 to 8 ins.	20.00
Euonymus vegetus, 8 to 12 ins.	18.00
Azalea mollis, 4 to 6 ins.	12.50
orange, red, pink, yellow	
List of other liners ready September.	

JOHN BOS NURSERY
Clyde, O.

ROOTED CUTTINGS—Taxus cuspidata.

T. cuspidata capitata, T. hicksii, Pfitzer Juniper, Globe Arborvitae, \$8.00 per 100; \$75.00 per 1000.

TRANSPLANTS—Azalea amoena, Pieris japonica, 6 to 8 ins., 15c; 10 ins. and up, 25c.

WESTWOOD GARDENS
Caldwell, N. J.

50,000 TAXUS

2 1/2-in. pots, \$180.00 per 1000. T. hicksii, T. capitata, T. cuspidata, T. intermedia. Also same varieties, 2-yr. field-grown, 50c ea.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.
Phone: Yaphank 4-3444

AMERICAN ARBORVITAE, sheared specimens, 8 to 12 ft., \$1.00 per ft.

AMERICAN FORESTRY SERVICE CO.
Lancaster Pike and Indian Creek Rd.
Philadelphia 31, Pa.

JAPANESE BLACK PINE
2-yr., field-grown, 4 to 5 ft. about 350.

PARMENTIER'S ROSES
Grady St., Bayport, L. I., N. Y.
Phone: 8-0811 or 8-2331

PIERIS JAPONICA (Andromeda)

Per 100 Per 1000
2 to 3 ins., T. \$8.00 \$75.00

PLANE VIEW NURSERY
Newport, R. I.

GROUND COVERS

GROUND COVERS
Ajuga genevensis, Per 100 Per 1000
field-grown \$12.50 \$110.00
English Ivy, field-grown 12.50 110.00
Euonymus radicans coloratus, 2-yr., field-grown 15.00 135.00
rooted cuttings 6.00 55.00
Pachysandra, field-grown, assorted 6.25 55.00
2-yr. 7.50 65.00
Truly fine stock. F.O.B.

MOHLE MEADOWLAND NURSERY
Great Meadows, N. J.

VINCA MINOR, MYRTLE PERIWINKLE
Fresh dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000. 30-cane clumps, \$90.00 per 1000.

Pachysandra, strong, 1-yr., rooted, \$55.00 per 1000.

Hall's Honeysuckle, branched, \$45.00 per 1000.

H. C. WAUGH
Boulevard Dr. Belpre, O.

PACHYSANDRA ROOTED CUTTINGS
\$ 3.75 per 100
35.00 per 1000

WESTWOOD GARDENS
Caldwell, N. J.

GROUND COVERS—Continued

PACHYSANDRA TERMINALIS—strong-rooted cuttings, \$3.75 per 100; \$3.50 per 1000; \$32.50 for any order of 5000 or more.
Prompt shipment. Beetle zone only.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.
Phone: Yonkers 5-1473

PACHYSANDRA TERMINALIS
Strong, 1-yr. field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

ORIENTAL POPIES
Heavy field-grown stock.
Good spring rains have helped produce fine plants.
Immediate delivery.

	Per doz.	Per 100
1500 Barra White	\$6.00	\$35.00
1000 Cerise Beauty	5.75	30.00
2000 Cowichan	6.00	35.00
500 Crimson Pompon (double)	5.50	25.00
500 Curtis Giant Flame	5.75	30.00
500 Curtis Giant Flesh Pink	5.75	30.00
250 Curtis Salmon-pink	5.50	25.00
1500 Helen Elizabeth	4.75	20.00
500 Henri Cayeux Improved	5.50	25.00
750 Indian Chief	6.00	35.00
2000 Mrs. Perry	4.75	20.00
500 Salmon Glow (double)	4.75	20.00
Mixed	4.25	18.00

Below are offered our new giant flowered hybrid. Own development.

2000 Salome, beautiful French rose	6.00	\$5.00
1000 Sonate, clear, deep rose-pink	6.00	35.00
2000 Souvenir, vivid poppy-red	6.00	35.00
500 Sultana, watermelon-pink	7.00	40.00
1000 Sungod, bright Saturn-red	6.00	35.00
1000 Surprise, vermilion-red	6.00	35.00

THE WAYSIDE GARDENS CO.
Mentor, O.

ORIENTAL POPIES

Now is the time to order and plant.

	Per 100	Per 1000
Amber Glow	\$2.75	\$22.50
Barra White	3.50	30.00
Beauty of Livermore, crimson	2.75	22.50
Cerise Beauty	2.25	18.00
Curtis Giant Flame	3.50	30.00
Curtis Giant Flesh Pink	3.50	30.00
Curtis Giant Salmon-pink	3.50	30.00
Gold of Ophir, gold-orange	3.00	25.00
Helen Elizabeth, pink	2.75	22.50
Henri Cayeux Improved	2.50	20.00
Joyce, cherry-red	2.25	18.00
Lachs Koenigen, salmon-pink	2.50	20.00
Little Shrimp	2.25	18.00
Mrs. Perry	2.50	20.00
Purity, pink	2.25	18.00
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Salmon Glow, double	3.00	25.00
Sass Pink	2.25	18.00
Toreador, carmine-red	3.50	30.00

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Painesville, O.

WHY NOT TRY...

HEUCHERA (Coral Bells), coral-pink.

Pine for cutting.

Attracts hummingbirds.

For the border.

Grows in sun or shade.

Pot plant.

	Per 100	Per 1000
Strong plants	\$15.00	\$130.00
Strong single divisions	12.00	100.00

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Rt. 5, Box 476 Battle Creek, Mich.

TRANSPLANTED LINERS

	Per 100
Alyssum saxatile compactum	\$5.00
Daisy, Conqueror	4.00
Doronicum caucasicum	6.00
Feverfew, Ball's White	2.50
Geum Lady Stratheden	6.00
Geum Mrs. Bradshaw	6.00
Iberis sempervirens	6.00

Minimum order, \$5.00. P. O. B.
FRANK KOHLER Mikado, Mich.

ASTER FRIKARTI Per 100
Strong rooted cuttings \$10.00
LYTHRUM MORDEN PINK,
Strong rooted cuttings 6.00

PLANE VIEW NURSERY

Newport, R. I.

America's Best Source
for Hardy Plants

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Write for Trade List.

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New and standard kinds.

New wholesale list now ready.

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Panicles, perennials and rock plants in wide variety. Send for catalog.

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Strong, true-to-name, field-grown roots.
Write for complete list.

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HOLLY

Cutting-grown female plants out of 3-in. pots.
English Holly, green, \$4.00
English Holly, variegated, 45.00
50 minimum quantity. Cash with order.
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ILEX OPACA (American Holly), yearlings in 4-in. pots. Male or female, 37½¢ ea. to 50¢ ea. named varieties. Free catalog.
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Ilex bullata, 2-yr. field-grown, heavy, 50¢ ea.

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Middle Island, L. I., N. Y.
Phone: Yaphank 4-3444

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GERMAN IRIS

Healthy roots from 1-yr. transplant stock.

	Per doz.	Per 100
Action Front	\$12.00	
Angelus	12.00	
Blue Shimmer	12.00	
Captain Wells	12.00	
Copper Rose	18.00	
Elmholtz	12.00	
Fair Elaine	12.00	
Flora Zenor	12.00	
Garden Magic	12.00	
Grand Canyon	12.00	
Lady Mohr	15.00	
Ming Yellow	12.00	
Prairie Sunset	15.00	
Sunny Ruffles	12.00	
The Red Douglas	18.00	
Worthington	15.00	

25 or more plants of one variety at 100 rate.

IRIS KAEMPFER

	Per doz.	Per 100
Blue Bird, single, rich blue	\$4.00	\$15.00
Columbia, double, blue, white veins	4.00	15.00
La Favorite, white, blue veins, purple center	4.00	15.00
Lucie Marshall, double, pansy-violet, white veins	4.25	18.00
Matchless, double, white, blue veins, yellow center	4.00	15.00
Nishike-Yama, double, mauve, veined white	4.00	15.00
Pyramid, double, violet-purple	4.00	15.00
Repsime, double, azure-blue	4.00	15.00
Mixed, all colors	3.75	12.00

25 or more plants of one variety at 100 rate.

IRIS PUMILA

	Per doz.	Per 100
Atrorivulacea, wine, reddish-purple, dwarf	4.00	15.00
Excelsa, pale lemon-yellow, dwarf	4.00	15.00
Keepsake, bright yellow	4.00	15.00
Sapphire, rich sapphire-blue	4.25	18.00

25 or more plants of one variety at 100 rate.

THE WAYSIDE GARDENS CO.
Mentor, O.

IVIES

HEADQUARTERS FOR QUALITY

HARDY ENGLISH IVY

Nursery grown in the Allegheny foothills.

Strong 2¼-in. pots, \$12.50 per 100. Cash with order.

R. 3 BABCOCK GARDENS Jamestown, N. Y.

BALTIC IVY, strong, clean stock. Rooted cuttings, 6¢; \$55.00 per 100. 2-in. pot, 10¢; \$95.00 per 1000. Ready now, 25% down to reserve.

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Russell Breece

LINING-OUT STOCK

PYRACANTHA LALANDI

2¼-in. pot, T, 1-yr. \$25.00 per 100

4-in. pot, T, 1½-yr. 60.00 per 100

5-in. pot, T, 2-yr. 95.00 per 100

2-in. rose pot, 4 to 6 ins. 18.00 per 100

1½-in. rose pot, 3 to 5 ins. 15.00 per 100

EDWARD GILSON & SON NURSERY

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Azalea cuttings, all varieties, \$50.00 per 1000.

Japanese Black Pine, Norway Spruce, Blue Douglas Fir, Colorado Blue Spruce, Carolina Hemlock, Mugho Pine, Ginkgo, Honey Locust and White Dogwood. \$30.00 to \$100.00 per 1000.

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Phone: Yaphank 4-3444

CHAMAECYPARIS AUREA

2½ to 6 ins. transplants, \$17.50 per 100

1 to 3 ins. seedlings, 7.50 per 100

FRANK KOHLER Mikado, Mich.

LINING-OUT STOCK

	Each
Pfitzer Juniper liners, field-grown, branched, trimmed, 12 to 15 ins.	\$0.85
15 to 18 ins.	.75

In plant bands

Andorra Juniper, 6 to 10 ins.	.14½
Blue Hetz Juniper, 6 to 8 ins.	.14½
Euonymus patens, small leaf	.12½
Hills Dark Green American Arbor-vitae	.25
Pfitzer Juniper, 6 to 8 ins.	.14½
8 to 10 ins.	.20
Pfitzer Juniper nana (Dwarf), 5 to 6 ins.	.20
Von Ehron Juniper, 8 to 10 ins.	.14½

Andorra Juniper, 6 to 5 ins. .08
Blue Hetz Juniper, 5 to 8 ins. .08
Blue Spiraea (Caryopteris), 5 to 6 ins. .05
Blueleaf Dwarf Arctic Willow, beds, 2-yr., 12 to 15 ins. .10
Desmodium penduliflorum, 5 to 6 ins. .10
Euonymus coloratus, 6 to 10 ins. .04
Forsythia, Lynwood Gold, 5 to 6 ins. .10
Forsythia, Spring Glory, beds, 1-yr., 6 to 8 ins. .05
3-yr., 12 to 15 ins. .10
Lyrthrum, Morden Pink, 5 to 6 ins. .05
All prices are for 300 or more total order.
Less than 300, add 2c per plant.
McNINCH GREENHOUSES
St. Joseph, Mo.

PYRACANTHA COCCINEA LALANDI
Hardy stock from selected fruiting plants. 3-in. pots, TT, 6 to 8 ins., branched, \$32.50 per 100. Well-rooted. Cash with order.

BABCOCK GARDENS
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PEONIES

Peonies in quantity. Felix Crousse; Karl Rosenfeld, red; Festiva Maxima, white, and Edulis Superba, pink. All large double, \$30.00 per 100. **GILBERTSON NURSERY**, Kindred, N. D.

THREE PEONIES—HERBACEOUS PEONIES
Write for trade list.

ATHA NURSERY West Liberty, O.

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PHLOX

If interested in phlox and other perennials, write for new list.

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RHODODENDRON

Unnamed hybrids of hardy Ponticum-Catawbiense parentage with firm, lightweight ball, for immediate shipment. Bed-grown, 4 to 6 ins., TT, 25c ea.
6 to 8 ins., TT, 50c ea.
Order by crate only. 50 plants per crate. Crating free. Cash with order.

RICHARD P. RESSEL NURSERIES

Mulino, Ore.

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Naturally Matured—Conscientiously Handled

If you have not as yet received it, ask for our list of Hybrid Teas, Floribundas and Climbers in the newest and best varieties.

For 30 years a consistently reliable source of finer roses.

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ROSES

The season's best deal. See for yourself. Standard and patent varieties. List to the trade.

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Good roses will not be in oversupply. Early bookings are indicated. List now ready. Send for your copy today.

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SEEDS

LAWN SEED

Prepared specially for the professional trade.

50 lbs. 100 lbs.

Landscape gardeners' mixture \$23.00 \$64.00

Cemetery mixture 38.00 73.00

Contractors' mixture 17.00 31.00

Shady mixture 28.00 54.00

F.O.B. New York, 300 lbs. shipped freight paid. Write for wholesale price list which shows contents of above and other formulas, as well as prices for individual grasses.

HERBST BROS. SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

LOVELL PEACH PITTS

1 to 5 bu. \$3.75

5 to 10 bu. 3.60

10 to 25 bu. 3.45

25 to 100 bu. 3.25

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Waynesboro, Virginia

YUNNAN
NEMATODE-RESISTANT PEACH SEEDS
 Grown from selected Freestone stock in isolated orchards. \$4.00 per 100; \$30.00 per 1000; 5000 lots, 2½¢ ea.; 10,000 seeds or more, 2¢ ea. Prices F.O.B. Princess Anne, Md., or Marshallville, Ga.
 Yunnan seeds give added vigor as well as resistance to most root nematodes.

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PONCOPARUS MAI seed, new crop now ready. Order now. Shipment must be made as soon as seeds are picked. \$3.50 per 1 lb., 10 lbs. for \$30.00.

PETER PEARSON
 Plymouth, Fla.

TREE SEEDS, domestic and foreign. Get scarce kinds by ordering early. List.
 K. J. BRADEN
 Box 187 Milton, N. H.

SHRUBS and TREES

1-YR. SEEDLINGS

	Per 100	Per 1000
Acer palmatum	5.00	\$ 40.00
Cornus kousa	6.00	50.00
Fagus sylvatica	7.00	65.00
Syringa vulgaris	3.00	25.00

2-YR. SEEDLINGS

Abies balsamea	5.00	40.00
Abies douglasii	6.00	50.00
Chinese Chestnut	20.00	
Ilex crenata	6.00	50.00
Thuja orientalis	3.50	30.00

3-YR. SEEDLINGS

Picea alba	3.50	25.00
Picea excelsa	3.50	25.00
Picea pungens glauca	4.50	40.00
Pinus mughus	4.00	30.00
Pinus strobus	3.50	25.00
Pinus sylvestris	3.50	25.00
Thuja occidentalis	6.00	50.00
Tsuga canadensis	6.00	50.00
Tsuga caroliniana	6.00	50.00

1-YR. POTTED GRAFTS

Cornus florida rubra	55.00	
Picea pungens kosteriana	125.00	
Picea pungens moerhousii	125.00	
Pinus cembra	85.00	
Pinus strobus nana	65.00	
Tsuga sargentii canadensis	65.00	
Wistaria multi-juga		
laver	50.00	

TRANSPLANTS

Cornus florida, branched,		
18 to 24 ins.	50.00	
Picea alba, 6 to 8 ins.	6.00	50.00
Picea excelsa, 6 to 8 ins.	6.00	50.00
10 to 15 ins.	15.00	140.00
Picea pungens glauca	8.00	
Tsuga canadensis,		
5 to 8 ins.	10.00	95.00
8 to 10 ins.	15.00	140.00
10 to 12 ins.	20.00	190.00
12 to 18 ins.	30.00	

ROOTED CUTTINGS TRANSPLANTED

IN BEDS		
Azalea hinodogiri,		
4 to 8 ins.	15.00	
Any bulbata, 4 to 8 ins.	10.00	
Ilex crenata, 5 to 8 ins.	10.00	
Ilex rotundifolia,		
5 to 8 ins.	12.00	100.00
Juniper, Hetz, 4 to 8 ins.	12.00	100.00
Juniper, Irish, 4 to 8 ins.	10.00	
Juniper, Pfitzer,		
4 to 6 ins.	12.00	100.00
Juniper, Spiny,		
Juniper, Spiny, potted	15.00	
Pieris japonica, 4 to 6 ins.	15.00	
Pyracantha lalandi, potted,	20.00	
Retinospora plumosa,		
6 to 8 ins.	10.00	90.00
Taxus brevifolia,		
4 to 6 ins.	10.00	90.00
Taxus cuspidata,		
4 to 6 ins.	10.00	90.00
Taxus hatfieldi,		
4 to 6 ins.	10.00	90.00
Taxus hickii, 4 to 6 ins.	10.00	90.00
Thuja globosa, 5 to 8 ins.	10.00	90.00
Thuja nigra, 4 to 6 ins.	10.00	90.00
Thuja vervaneana,		
5 to 8 ins.	12.00	
Viburnum burkwoodii,		
12 to 15 ins.	50.00	
Pachysandra	4.00	35.00

VAN DINE NURSERY
 Berdan Ave. Preckness, N. J.

DOGWOOD—WHITE FLOWERING
 Cornus florida

	Each
700—2 to 3 ft. B&B.	\$1.25
300—3 to 4 ft. B&B.	2.50
270—4 to 5 ft. B&B.	2.50
156—5 to 6 ft. B&B.	3.50
82—6 to 7 ft. B&B.	4.50

All trees are well branched, single body, heavy caliper, and nursery-grown. Bloom buds on most of the three larger grades.

WHERRY'S NURSERIES

St. Marys, W. Va.

8000 Cornus florida, 18 to 24 ins., \$1.00; 24 to 36 ins., \$1.50; 4 to 5 ft., \$3.00. Cornus florida rubra, 24 ins., heavy, \$2.50; 3 ft., heavy, \$2.00; 4 ft., heavy, \$4.00; 5 ft., heavy, \$5.00. All B&B.

BAIER LUSTGARTEN NURSERIES

Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

QUALITY STOCK

Coniferous and broad-leaved evergreen line. Heavy, one year under lath. 2½-in. pots. 250 plants at 1000 rate.

	Each per 1000
Arborvitae, Sibir	\$0.18
Hieracium Biota (aurea nana)	.18
Ilex cornuta	.16
Ilex cornuta burfordii	.15
Ilex crenata convexa	.15
Ilex crenata rotundifolia	.15
Ilex opaca, Howard	.18
Ilex opaca, from heavy bearer	.18
Juniper, Greek	.16
Juniper, Irish	.15
Juniper, Polish	.15
Juniper, Andorra	.15
Juniper, Hetz	.18
Juniper, Pfitzer	.18
Juniper, Compact Pfitzer	.18
Juniper, Von Ehron	.18
Juniper, Blue Pfitzer	.22
Juniper, Oldfield Common	.20
Nandina domestica	.15
Bed-grown stock: Ilex burfordii, 2-yr., 15 to 20 ins., 25¢; Laurel Cherry, 10¢; Ligustrum lucidum, 10¢; Photinia serrulata, 10¢.	

Terms: 5% discount and free packing for cash with order during September. Order now for fall and spring. Regular 2% discount after September 30. Add 2¢ per plant on orders of less than 250. Samples on request. Write for prices on B&B stock.

E and S NURSERY
 Phone: Columbus, Miss., 5342
 R. 2 Caledonia, Miss.

QUALITY LINERS

	Each
Abies pinsapo, 3-in. pot	\$0.35
Andromeda, 4 to 6 in., br.	.15
6 to 8 in., br.	.20
Azalea mollis, 2-yr. S.	.10
Clematis montana, 3-in. pot	.35
Daphne cneorum, 2-in. pot	.20
Daphne odora, 2-in. pot	.25
3-in. pot	.45
Gentian aculeata, single div.	.12
Heather, carnea, X	.12
County Wicklow, X	.12
King George, X	.12
Mediterranean Hybrid, X	.12
Vevilli, X	.12
Juniperus nuperi, 6 to 8 ins., X	.25
8 to 10 ins., X	.35
Juniperus tamariscifolia, 4 to 6 ins., X	.12
6 to 8 ins., X	.15
8 to 10 ins., br., X	.27
Japanese Maple, 2-yr., 8	.10
Norway Spruce, 3-in. pot	.35
Rhododendron ponticum, 4 to 6 ins., X	.25
6 to 8 ins., X	.25
Thuja woodwardi globosa, br.	.25
8 to 10 ins., X	.25
Viburnum burkwoodii, 2-in. pot	.30
Cash with order, please	.50

FOUR STAR NURSERY

8215 238th, S. W. Edmonds, Wash.

VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a supply of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot, but can offer these seedlings because we have our own seed by this time. We offer the following for fall, 1954, and spring, 1955:

	Per 100	Per 1000
Strong, 2-yr. seedlings	\$15.00	\$125.00
6 to 8 ins.	20.00	175.00
8 to 12 ins.	30.00	250.00

Transplants, branched, mail-order size, 12 to 18 ins., \$75.00 per 100.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

FIRST-CLASS STOCK

We offer first-class stock in the following trees: Birch; European White, Cutleaf, and Clump; Flowering Weeping Cherry; Kwan-zan, Mt. Fuji and Amanogawa. Paul's Scarlet Thorne, low and high branched. Flowering Crab Apple in all leading varieties. All of the above we offer at a special price in the popular grades. Send for our price list of these and other leading items that we have to offer.

VILLA NURSERIES

Montavilla Station P. O. Box 5137

Portland 16, Ore.

For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

NURSERY STOCK

	Per 100
Azalea mollis, 2-yr., T. sheared, L.O. stock, bushy, 6 to 8 ins.	\$10.00
Euonymus vegetus, 2-yr., T. L.O. stock	10.00
8 to 12 ins.	20.00
Ilex convexa, 2-yr., T. sheared, bushy,	
4 to 6 ins.	20.00
6 to 8 ins.	30.00
8 to 10 ins.	40.00
Lilacs, Florent Stepmann, Ruhm von Horstenstein, Michel Buchner, Hugo de Vries, Ludwig Spaeth, P. Grevy, Charles X, Huzo Koster, Mme. Le-moine, Charles Joly, 1-yr. buds, L.O. stock, 10-in. and up, branched.	25.00
1 to 2 ft., branched	35.00
Taxus cuspidata, 3-yr., T. sheared,	
8 to 12 ins.	35.00
12 to 15 ins.	45.00
Thuja occidentalis compacta, 2-yr., T. bushy, 6 to 8 ins.	13.00
8 to 10 ins.	18.00
Wistaria sinensis, 2-yr., T.	35.00
Cash with order earns free packing. One fourth with order and balance before shipping, or C.O.D.	
THE LITTLE MOUNTAIN VIEW NURSERY	
R. D. 1, Rt. 84 Mentor, O.	

NURSERY STOCK

Acer dissectum, 1-yr. grafts.
 Acer Paasens Black, whips, 4 to 5 ft.
 Acer Paasens Black, whips, 5 to 6 ft.
 Camellia, Queen of Camellia, hardy to 20 degrees. 1-yr., pot-grown.
 Cedrus atlantica glauca, 1-yr. grafts, 1½ to 2 ft.
 Chamaecyparis, high-growing and dwarfs, 1-yr. grafts.
 Cornus florida, pot-grown, 2-yr. cuttings.
 Cornus florida rubra, pot-grown, 1-yr. cuttings.
 Cornus florida rubra, layers.
 Eleagnus ebbingsii, 1-yr. grafts.
 Fagus asplenifolia, riveral and pendula in various sizes, 1 and 2-yr. grafts.
 Fagus sylvatica atropunicea (purpurea) major, 1 and 2-yr. grafts, 2 to 3 ft., 3 to 4 ft.
 Rhododendron, 1-yr. grafts, excellent.
 All our products are grown on sandy loam. Request catalog and price list.
HOLLAND NURSERY PRODUCTS
 P. O. Box 339, Madison Square Station
 New York 10, N. Y.

COTONEASTER PRAECOX

This is one of the hardest Cotonasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for fall, 1954, and spring, 1955:

	Per 100	Per 1000
Strong, 1-yr. seedlings, branched,		
4 to 8 ins.	\$25.00	\$225.00
8 to 12 ins.	50.00	
Transplants, 2-yr.		
8 to 12 ins.	50.00	

Turner Rd. Newport, R. I.

PYRACANTHA

Pot-grown, strong plants, perfect roots. Lalandi Ebben, Orange Princess, Kaan Sunberry, 2-yr. transplanted cuttings, pot-grown, 6 to 8 ins. per 100.....\$11.00
 8 to 10 ins. per 100.....15.00
 Introducing Keen's Superb, an excellent and graceful grower, with thick dark leaves, fruit deep orange, hardy. Keen's Superb is a novelty of outstanding quality. Only available in limited supply.

HOLLAND NURSERY PRODUCTS

P. O. Box 339, Madison Square Station

New York 10, N. Y.

Importers of choice material.

SHRUBS & TREES

	Per 100	Per 1000
Callicarpa dichotoma (Beauty-berry), 2-yr. seedlings,		
3 to 12 ins.	\$ 7.50	\$50.00
Cotoneaster divaricata, transplanted seedlings	10.00	85.00
Photinia villosa, 2-yr. seedlings, of root-pruned, 6 to 12 ins.	10.00	85.00
Syringa amurensis japonica, (Japanese Tree Lilac),		
6 to 12 ins.	10.00	85.00
NEWPORT NURSERY CO.		
Newport, Mich.		

English Juniper, 3 to 3½ ft. B&B.....\$2.50

Hemlock, 3 to 3½ ft. B&B.....2.50

2½ to 3 ft. B&B.....2.50

Hetz Juniper, 15 to 18 ins. B&B.....1.50

18 to 24 ins. B&B.....2.00

24 to 30 ins. B&B.....2.50

Pfitzer Juniper, 15 to 18 ins. B&B.....1.50

18 to 24 ins. B&B.....2.00

24 to 30 ins. B&B.....2.50

Pink Dogwood, 3 to 3½ ft. B&B.....3.00

All plants well shaped. Excellent color.

HOME NURSERY CO. Fort Gay, W. Va.

Cotoneaster divaricata and C. horizontalis, heavy plants, 6-in. cans, \$1.00.

BAIER LUSTGARTEN NURSERIES

Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

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CHINESE CHESTNUT TREES
Row run, culls out, 3-yr.-old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20's, in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales. F.O.B. Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr.-old liners in quantities. Write for prices.

GOLD CHESTNUT NURSERY

Cowen, W. Va.

CHINESE CHESTNUT		
	Per 10	Per 100
2 to 3 ft., T.	\$ 7.50	\$ 65.00
3 to 4 ft., T.	10.00	90.00
4 to 5 ft., T.	15.00	140.00
5 to 7 ft., T.	20.00	185.00

Write for complete Wholesale price list.

WAYNESBORO NURSERIES

Waynesboro, Virginia

SHADE TREES
Silverleaf Maples
10,000—8 to 10 ft.

Also: Tulip, Poplar, Sweet Gum and Redbud.

FLOWERING SHRUBS
Crape Myrtle, red, Weigela, and Tamarix.

Nursery-grown, transplanted, and root-cut.

C. B. ARNOLD NURSERY

Mounted Rt. Murfreesboro, Tenn.

MAGNOLIAS
25,000 Soulangiana, Soulangiana Nigra, Stelata, 18 ins., \$2.00; 24 ins., \$2.50; 30 ins., \$3.00; 36 ins., \$3.50; 48 ins., \$4.50; 60 ins., \$6.00; 70 ins., \$7.50.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

AUCUBA
Heavily rooted liners out of 2½-in. pots. Gold dust plant. \$17.50 per 100, \$150.00 per 1000, 100 minimum quantity. Cash with order.

DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
Chino, Calif.

FLOWERING SHRUBS
10,000 Forsythia, Spiraea (lunbergi, Spiraea vanhouttei, Weigela and Deutzia, 8 to 4 ft., heavy, 50c; 4 to 5 ft., 75c.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

BARBERRY
Transplanted, heavily branched barberry. 6,000—18 to 24 ins., red and green leaf. State inspected. Will consider offer for the lot, dug or in the field.

LUTHER P. CREASY NURSERIES
R. D. 1 Catawissa, Pa.

DOUBLE PINK JAPANESE FLOWERING CHERRIES (Kwanzan) Per 100
Strong 1-yr. grafts, 12 to 18 ins. \$50.00
Strong 1-yr. grafts, 18 to 24 ins. 75.00

C. HOOGENDOORN

Turner Rd. Newport, R. I.

VINES

CLEMATIS VINES
Jackman, Lord Neville, Ramona, Ernest Markham, Lanuginosa Candida—No. 1, 4-in. pot plants, well-ripened. In any quantity. Please write us for quotation. Clematis have been our specialty for years.

THE D. S. GEORGE NURSERIES
Fairport, N. Y.

SUPPLIES AND SERVICES

FLATS

MINNESOTA WHITE CEDAR FLATS

	Per 100
No. 1, 14x20x2 \$24.00	
No. 2, 14x20x3 27.75	
No. 3, 12x16x2 21.50	
No. 4, 12x16x3 21.75	
No. 5, 14x16x2 20.75	
No. 6, 14x16x3 24.50	
No. 7, 15x22x2 27.25	
No. 8, 15x22x3 31.50	
No. 9, 11½x22x2 23.00	
No. 10, 11½x22x3 26.00	
No. 11, 13½x16x½ 30.00	
No. 12, 6x5x1 16.00	
No. 13, 5x5x1 18.50	

All other sizes quoted on request.
5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are ¾-in. and ends are ¾-in. thick. All material surfaced on one side. All shipments by trucks unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus ¼ cent per end piece for the first 1000 ends, ¼ cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

H. C. HILL & SONS, Cook, Minn.

REDWOOD FLATS, K. D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bd.
50 pcs. to bundle, 5 ft., \$4.50 per bd.

50 pcs. to bundle, 6 ft., \$5.50 per bd.
Ship same day. Cash with order, please.

YOHIO & HOOKER, Youngstown 2, Ohio

LABELS

DAHLIA OR TREE LABELS

	Plain	Painted
3½x½ ins., notched (not wired)	\$2.50	\$3.00
3½x½ ins., wired (copper)	3.30	4.10

POT LABELS

4x½ ins. (cartons 1000 each)	2.90	3.40
5x½ ins. (cartons 1000 each)	3.10	3.70
6x½ ins. (cartons 1000 each)	3.40	4.15
8x½ ins. (cartons 500 each)	5.00	6.20
10x½ ins. (cartons 500 each)	6.00	7.30

GARDEN STAKES

8x ¾ ins. (cartons 250 each)	1.85	2.15
10x ¾ ins. (cartons 250 each)	2.10	2.40
12x1½ ins. (cartons 100 each)	1.40	1.60

GARDEN STAKES
Price per carton.

EVERMARK PENCILS

The original label marker. 1 doz. 7-in. pencils per box. \$1.25.

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOHIO & HOOKER

Youngstown 2, O.

ORCHID SUPPLIES

GAVIOTA ORCHID FERTILIZER. This new improved fertilizer is especially compounded for all types of orchids, phillodendrons and exotic plants. \$1.25 per lb.

ATLAS FISH EMULSION, \$6.25 per gal.

WALL-TYPE POT HANGERS, hold to 4-in. pots. 25c ea., \$2.75 per doz., \$18.50 per 100.

OSMUNDA, standard bale, \$11.00; 2 for \$21.00. F.O.B. Houston. Standard bale, \$8.00; 2 for \$15.00. F.O.B. Florida.

1 WRIGHTWOOD FLORAL CO., INC.
Houston 9, Tex.

Prices F.O.B. Subject to change without notice.

PEAT

COLBY PIONEER PEATS

GRANULATED PEAT MOSS (ACID).

2½-bu. plastic lined bags, approx. wt. 35 lbs.

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

HI-NITROGEN HORT. PEAT (NEUTRAL)

2½-bu. plastic lined bags, approx. wt. 50 lbs.

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

BLACK CULTIVATED PEAT HUMUS (SWEET)

2½-bu. plastic lined bags, approx. wt. 75 lbs.

1 to 10 bags \$1.25

10 to 25 bags 1.15

25 or more 1.00

F.O.B. Hanlontown, Ia.

Terms: 2% cash discount.

COLBY PIONEER PEAT CO.

Hanlontown, Ia.

SPHAGNUM MOSS

QUALITY SPHAGNUM

Best prices in carload lots and l.c.l. Burlap or wire-bound bales. Write for latest price list.

NORTH AMERICAN MOSS CO.

610 Lincoln St. Wisconsin Rapids, Wis.

NO. 1 SPHAGNUM MOSS

Clean, long-fibered, standard bales; freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

Classified Ads Offer Maximum Results at Minimum Cost.

STAKES

HEAVY BAMBOO STAKES

Per 100 ¾ to 1 in. ¾ to 1 in. ¾ to 1 in.

4 ft. \$2.88 \$3.44 \$4.24

5 ft. 3.60 4.30 5.30

6 ft. 4.32 5.16 6.36

7 ft. 5.04 6.02 7.42

8 ft. 5.76 6.88 8.48

2000 up, less 5%; 5000 up, less 10%

A. C. PATTERSON, Centertown, Ky.

MISCELLANEOUS

PEONIES - IRIS - LILACS

PEONIES, 5 to 5-eye divisions. Prices per 10. Couronne d'Or, Baroness Schroeder, Solange, \$3.50. Jubilee, Milton Hill, \$4.50. Martha Bulloch, Mrs. Edward Harding, Theres, \$6.00. Myrtle Gentry, \$7.00.

IRIS, extra-fine, named varieties in assortment, our selection, \$8.00 per 100. Christabel, \$2.00 per 10. Lent A. Williamson, \$1.00 per 10.

FRENCH LILACS, named choice varieties, heavy, 2 to 3 ft., \$7.50 per 10. 3 to 4 ft., \$10.00 per 10.

Cash with order, please.

HARRY FRANKLIN BAKER, INC.

1910 N. Eustis St. Paul 8, Minn.

Ilex convexa, fine seed grown in 1952, 4 to 5 ins., \$8.00 per 100. Adenophora confusa, heavy clumps, 22c per 10; 20c per 50. Centaurea dealbata, 2 to 3-yr., 22c per 10; 20c per 50. Cash with order, by express collect.

F. E. BLUNCK & SON

R. D. 3 Finleyville, Pa.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

WANTED

WANTED—Up to 10,000 Downing and Pix-well Gooseberry for fall, 1954, delivery. Kindly quote on both 1 and 2-yr.

MICHIGAN FRUIT GROWERS NURSERIES

1500 U. S. Hwy. 12 Benton Harbor, Mich.

These are the strongest, straightest, most durable and long-lasting plant stakes you can buy. Made of sun-cured Florida Tidewater RED Cypress—"THE WOOD ETERNAL." Each stake is approximately one inch and pointed at one end.

RED Cypress costs more, but lasts longer than white or yellow Cypress, and thus is cheaper in the long run.

Packed in units of \$1 stakes

F.O.B. N.Y. F.O.B. Fla.

Per unit Per unit

4 ft. long, 1x1 in. sq. \$10.00 \$ 8.50

5 ft. long, 1x1 in. sq. 11.50 10.00

6 ft. long, 1x1 in. sq. 12.50 11.50

McRUTCHISON & CO.

95 Chambers St. New York 7, N. Y.

CYPRESS PLANT STAKES

50 Pieces to Bundle.

1x1-in.—3 ft., pointed \$3.00 per bundle

1x1-in.—4 ft., pointed 3.50 per bundle

1x1-in.—5 ft., pointed 4.50 per bundle

1x1-in.—6 ft., pointed 5.50 per bundle

1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHIO & HOOKER

Youngstown, O.

STAKES, GALVANIZED HARD STEEL.

Galvanized Wire

Prices and samples sent upon request.

SCHUPP SUPPLY CO., Wilmette, Ill.

TRADE BOOKS

TRADE BOOKS.

GREENHOUSES: THEIR CONSTRUCTION

AND EQUIPMENT,
by W. J. Wright, \$3.00.

MAINTENANCE OF SHADE AND

ORNAMENTAL TREES AND SHRUBS,
by P. P. Pirone, \$7.00.

NURSERY MANUAL,

by L. H. Bailey, \$5.75.

THE BOOK OF SHRUBS,

by A. C. Hottes, \$4.00.

65 PRACTICAL GARDEN PLANS,

by John Elliott, \$1.00.

COMMERCIAL FLOWER FORCING,

by Alex Laurie and D. C. Kiplinger, \$5.00.

Descriptive book circulars available on request.

These books and others on horticultural subjects may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN

343 South Dearborn Chicago 4, Ill.

ACTIVE MADISON GROUP

[Continued from page 14]

also present at the demonstration, and the group received several columns of publicity.

With the highway and utility personnel as interested spectators, members of the landscape men's group moved down a mile stretch of road just south of Madison which had been previously cruised to map its varied problems. Taking turns at designated spots, the nurserymen showed how to cut off a big limb, so that the bark of the trunk was not torn; how to trim bark, so that the cambium layer would eventually close an ugly gash, and how to take the load off the upper part of a tree that was old, but still had many years to go.

They suggested various ground covers for raw spots left by ditch grading. They considered fallen trees as quail loafing places and for denning of wild animals.

Before the mile walk was concluded, the nurserymen were so enthusiastic that they suggested taking over the stretch of road as a demonstration of what can be done to turn a roadside into a rural park. They are now deep in plans to obtain plant material through state and federal agencies and show what can be done to make a roadside beautiful.

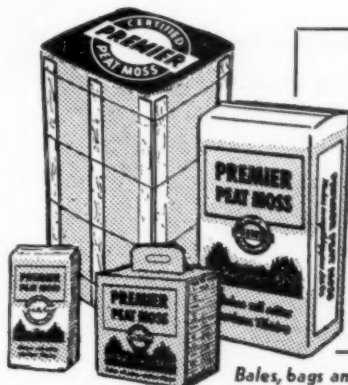
The theme of the demonstration was set at the beginning by Clifford Mathison, president of the Madison Landscape Nurserymen's Association, who read a piece with particular application to Madison by L. H. Bailey from "The Standard Encyclopedia of Horticulture," as follows:

"Every state and county can have a great rural park system without the cost of buying land by saving or restoring to the roadside the native trees, shrubs and flowers. The famous drives connecting Madison, Wis., with the surrounding lakes afford a good example."

Members of the Madison association are Richard Melland, Arrowwood Nursery; Homer Fieldhouse, Fieldhouse Landscape Center; Peter Ganshert, Ganshert Landscape Service; Alton Wilke, Wilke's Nursery; Harvey and Richard Schmidt, Schmidt Nursery & Greenhouse; James Hammond, the Green Thumb; Axel Lundstrom, and Clifford L. Mathison. Mr. Lundstrom is vice-president, Mr. Hammond is secretary-treasurer and Richard Schmidt a director.

MOUNT ARBOR NURSERIES, Shenandoah, Ia., will build a 45x50-foot addition to their building on Wabash avenue.

PREMIER gets the results that get customers



Premier Peat Moss Boosts Your Sales

The new Premier Kar Bale—polyethylene laminated inside and outside—is the best-made and best-selling package for peat moss. Moistureproof, leakproof—and always clean! Makes a colorful, eye-catching display that pulls in sales!

Bales, bags and cartons for every need

EVERY kind of soil has proved that Premier Peat Moss is better . . . because Premier has the absorbency that nurseries need for successful soil conditioning, mulching, transplanting and seedbeds. And Premier supplies the natural, organic matter that your soil needs for the microbiological activity that makes it productive.

Premier keeps your soil loose, crumbly and porous—and keeps your customers rebuying this aid to better gardening! In packages for every need—bales, bags and cartons that are easy to use, to display and to sell.

Write today for prices and full details on Canadian and European Premier Peat Moss.

Premier Peat Moss Corp., 535 Fifth Avenue, New York 17, N. Y.

PREMIER PEAT MOSS

The Natural Organic Soil Conditioner

LAWN-GARD

STEEL CURBING

INSTALLED
IN A
JIFFY!

FOR

- PATHS
- FLOWER BEDS
- DRIVEWAYS

STAKES
FURNISHED...

★ CAN BE SHAPED
TO ANY CONTOUR

Green Finish 56¢ Ft.
F. O. B. OUR PLANT

DISCOUNT TO

★ NURSERYMEN ★ LANDSCAPE GARDENERS ★ FLORISTS

SEND FOR LITERATURE

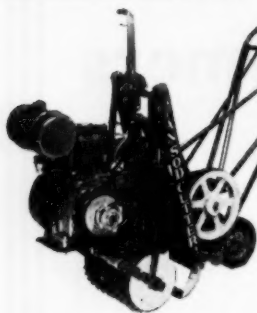
INDIANAPOLIS 7

W. J. HOLLIDAY & CO. (INC.) INDIANA

Ryan

Quality Built

"NURSERY TWINS"



LAWN GROOMER

Trims and Edges . .
Better — Faster — Safer !

POWER SOD CUTTER

Engineered to be BEST!

Write Dept. A-6
for PROOF!



K&N

MACHINE WORKS, INC.

871 Edgerton St. — St. Paul, Minn.

TWINE

ROPE

TWIST-EMS

CAW-CAW Fuse Rope
Stop Bird and Animal
Depredation.

Write for circular.

One of the World's Largest
Stocks of Twines and Rope

J. E. Fricke co.

40 N. Front St., PHILADELPHIA 6, PA.
MILLS: HULMEVILLE, PA.

NEW

ROTPROOF

Colored Burlap

The Answers to Your Treated
Burlap Problems.

- Outlasts untreated burlap 6 to 8 times.
- Not oily.
- Clean, odorless.
- Noninjurious to plants.
- Will not harm or irritate handlers.

As an added feature, these squares may be had **COLORED** in **GREEN** or **RED**.

Write now for samples and low prices.

AMERICAN-DUTCH BURLAP CO.

P. O. Box 177, CRANSTON 10, R. I.

TRADE PRACTICE RULES

[Continued from page 8]

c. the ability of any nursery product to bear fruit through self-pollination if such is not the fact, or
d. the ability of nursery products to grow, flourish and survive irrespective of the climatic conditions, the care exercised in planting, or the soil characteristics of the locality in which they are to be planted.

Rule 6. Plants Collected from the Wild State

Because of additional growth hazards involved in the collection and transplanting of industry products obtained from the wild state, the primary deficiency being lack of an adequate root system, it is an unfair trade practice to sell, offer for sale or distribute such items in a manner which deceives purchasers or prospective purchasers into a belief that they are nursery-grown stock, the deception being effected either by a positive misrepresentation or by failure to disclose that an item was collected from the wild state.

Rule 7. Misrepresentation as to Character of Business

It is an unfair trade practice for any industry member, in the course of or in connection with the distribution and sale of industry products, to represent, directly or indirectly, that he is a grower, or that he conducts a nursery business, or that he owns or controls a nursery or growing fields, when such is not the fact, or in any other manner to misrepresent the character, extent or type of his business.

Under this rule, it is an unfair trade practice

1. to use the word "nursery" or "nurseries," or any other words of similar import, in a corporate or trade name, business sign or advertising matter unless the industry member actually owns and operates or directly and absolutely controls a nursery or farm upon which a substantial proportion of the nursery stock sold and distributed by him in interstate commerce is grown; or
2. to use deceptively the word "guild" or "club" or any other word of similar import or meaning as part of a trade name, or otherwise, in such a manner as to indicate that the industry member's business is other than a commercial enterprise operated for profit, unless such be true in fact.

Rule 8. Deceptive Guarantees

I. It is an unfair trade practice to represent, in advertising or otherwise, that a nursery product is "guaranteed" unless the nature and extent of such guarantee is conclusively disclosed and without deceptively minimizing the terms and conditions relating to the obligations of the guarantor.

II. It is an unfair trade practice to use, or cause to be used, any guarantee in which the obligations of the guarantor are impracticable of fulfillment, or in respect to which the guarantor fails or refuses to observe his liabilities thereunder.

(Note: In the absence of a written guarantee or warranty, it is an accepted practice among industry members to warrant delivery of industry products in viable condition to the transportation agency, packaged in a manner which assures delivery without damage when handled with reasonable care and promptness.)

Rule 9. Deceptive "Salesmen Wanted" Advertisements

In connection with the promotion of the sale of industry products, it is an unfair trade practice for any industry member to use, or cause to be used, any advertisement which directly or by implication is false, misleading or deceptive.

- a. the salary, commission, income, earnings or other form of remuneration which agents, canvassers, solicitors or sales representatives may expect to receive; or
- b. the opportunities to become a local manager, district supervisor, field representative or to start in an established nursery or landscape business; or
- c. any other form of inducement which leads the prospective salesman to believe he will be employed as anything other than a commission agent.

Rule 10. Misrepresentation with Respect to Collection of Accounts

It is an unfair trade practice for any industry member to use collection letters, notices, forms or other communications purporting to emanate from "Legal Department," when in fact he does not maintain a legal department for the collection of accounts; or to use the names of fictitious or nonexisting collection agencies, representing that collection offices set up by them are independent, bona fide collection agencies, and using simulated legal forms or other intimidating or threatening methods to induce payment.

Rule 11. Misrepresenting Origin or Source of Industry Products

In connection with the sale or distribution of nursery products in commerce, it is an unfair trade practice

- a. to misrepresent the foreign origin of such products, such as by use of the term "Holland" in describing bulbs which were in fact grown elsewhere than Holland; or
- b. to misrepresent that such products

Spring Cleaning Starts Now

with CRAG Herbicide-1

Trade-Mark

Make your next spring-weeding easier by preventing chickweed and other winter annuals with CRAG Herbicide-1. Start now with a clean field and an application of CRAG Herbicide-1. Keep your field clean with further applications as needed even as late as October. This will prevent the weeds that germinate in the fall and keep on growing through the winter.

Don't let your weed control program stop in the summer, keep it up through late fall—you'll find it pays off by making your spring clean-up easier.


CRAG Herbicide-1

Trade-Mark

is a product of

CARBIDE AND CARBON CHEMICALS COMPANY

A Division of Union Carbide and Carbon Corporation

30 East 42nd Street  New York 17, N. Y.

"Crag" is a registered trade-mark of Union Carbide and Carbon Corporation.

have been procured from a well-recognized growing area or through established nursery sources, such as by use of a proper name in the descriptive title of the product ("Wisconsin spruce") to describe a tree grown in Georgia), or in any other manner to deceive and confuse the purchaser or prospective purchaser concerning the origin or source of the industry products offered for sale.

Rule 12. Arrangements to Exclude Sale of Competitors' Products

It is an unfair trade practice for any member of the industry to sell any industry product for resale with the agreement or understanding that the purchaser will not deal in products of a competitor or competitors, if the result of such an agreement or understanding may be to lessen competition or tend to create a monopoly in any line of industry products.

Rule 13. Tie-In Sales, Coercing Purchase of One Product as a Prerequisite to the Purchase of Other Products

The practice of coercing the purchase of one or more nursery products as a prerequisite to the purchase of one or more other nursery products if the effect may be substantially to lessen competition or tend to create a monopoly or unreasonably to restrain trade, is an unfair trade practice. (Note: Where there is a limited supply of an item due to drought, storm or other acts of God, the seller may prorate his supply equitably among those whose orders he has accepted.)

Rule 14. Deceptive Pricing

It is an unfair trade practice to represent, in advertising or otherwise, that the price of any nursery product has been reduced from what is in fact a fictitious price, or that the price is a wholesale, introductory or special price when it is in fact the regular selling price of the product, or that the regular price of a product is higher when such is not the fact, or otherwise to represent falsely or deceptively the past or current price of any industry product.

(Note: If comparisons are made in advertising or otherwise, between the prices of industry products offered in copy and the average prices of the same industry products from other sources, it must be affirmatively stated that the comparisons are made on the same grades and sizes of products.)

Rule 15. Selling Below Cost

I. The practice of selling nursery products at a price less than the cost thereof to the seller, with the purpose or intent, and where the effect may be, to injure, suppress or stifle competition or tend to create a monopoly

in the production or sale of such products, is an unfair trade practice.

II. As used in this rule the term "cost" means the total cost to the seller. All elements of expense, including costs of acquisition, production, preparation for marketing, sale, delivery and general overhead, incurred by the seller shall be taken into account and proportioned in accord with sound cost-accounting principles and methods.

(Note: To constitute a violation of this rule, sales below cost must be a practice, as distinguished from isolated or sporadic instances of such sales, and there must be present the intent and at least one of the effects specified. The requisite intent would ordinarily be lacking in cases in which such sales were (1) of seasonal goods near the conclusion of the season; (2) of perishable goods in respect to which deterioration is imminent; (3) of obsolescent goods; (4) made under judicial process; or (5) made in a bona fide discontinuance of business in the goods concerned.)

Rule 16. Use of the Word "Free"

In connection with the sale, offering for sale or distribution of industry products, it is an unfair trade practice to use the word "free" or any other word or words of similar import, in advertisements or in other offers to the public, as descriptive of an article of merchandise, or service, which is not an unconditional gift, under the following circumstances:

a. When all the conditions, obligations or other prerequisites to the receipt and retention of the "free" article of merchandise or service offered are not clearly and conspicuously set forth at the outset so as to leave no reasonable probability that the terms of the offer will be misunderstood; and, regardless of such disclosure:

b. When, with respect to any article of merchandise required to be purchased in order to obtain the "free" article or service, the offerer (1) increases the ordinary and usual price of such article of merchandise, or (2) reduces its quality, or (3) reduces the quantity or size thereof.

(Note: The disclosure required by subsection (a) of this rule shall appear in close conjunction with the word "free" (or other word or words of similar import) whenever such word first appears in each advertisement or offer. A disclosure in the form of a footnote, to which reference is made by use of an asterisk or other symbol placed next to the word "free," will not be regarded as compliance.)

Rule 17. Use of Lottery Schemes

The offering or giving of prizes, premiums or gifts in connection with the sale of nursery

MONARCH FOGGER



Humidifies Without Excessive Wetting

\$1.75 each

Postpaid With Check

- Breaks up water into exceedingly fine fog.
- Operates on regular water pressure —25 lbs. or more.
- Uses only 1 gallon water per hour.
- 1/8-in., 1/4-in. or 3/8-in. male pipe thread.

Write for detailed information including prices, specifications and installation diagrams.

DEALER INQUIRIES INVITED

W. A. WESTGATE

Monarch Spray Equipment

P. O. Box 445, Davis, Calif.

BUY DIRECT — TWINE • BURLAP

BALER TWINE • 225 ft. per lb. — 270-lb. breaking strength
BINDER TWINE • 500 ft. per lb. — 90-lb. breaking strength
FOR TYING TREES—PLANTS—SHRUBBERY

Twine Put Ups:

BALER—40-lb. bale (Two 20-lb. balls)

BINDER—50-lb. bale (5 or 8-lb. balls)

F.O.B. New York or New Orleans stock
 Freight from New Orleans or New York to Chicago—about 2c per lb.

PRICES: 600 lbs.—16½¢ per lb.

150 lbs.—18½¢ per lb.

NEW BURLAP—by bale or cut size, 2,000 yds. minimum in a bale.

PRICES: 2,000 yds. or more (bale lots)

	Per Yard	Cut Sizes
7½ oz. 36 ins. wide.....	10½¢	36x36 ins.....16½¢ yd.
7½ oz. 40 ins. wide.....	11¼¢	40x40 ins.....19 c yd.
	1000 yds. minimum—1c yd. extra.	

F.O.B. New York and New Orleans stock on bale goods. On cut sizes F.O.B. New York only—250 pieces in a bale.

USED BURLAP: 7½ oz. goods, F.O.B. New York only.

PRICES:	10,000 yds.	2000 yds.	1000 yds.
	8c yd.	8½¢ yd.	8¾¢ yd.
	Put up 100-yd. lengths or 500-yd. rolls.		

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

WRITE FOR DELIVERED PRICES ON ROPE • JUTE • COTTON • SISAL

INTERSTATE TWINE CO.

110 Murray St.

NEW YORK 7, N. Y.

CONSTANT MIST HUMIDIFICATION

TEST IT YOURSELF—NOW. If you are a propagator of plants in frames or greenhouses, you cannot afford to be without humidification.

Five years of testing and experience has established what I believe is the best equipment to use. Special Monarch jets to work on low water pressure (25 lbs. min.) are available with a kit of essential parts to cover 450 sq. ft. Simple erection and FULL OPERATING INSTRUCTIONS are included for \$80.00, postpaid, cash with order.



Monarch H-261 jet

JAMES S. WELLS., 703 W. Main St., DUNDEE, ILL.

"Wearproof"
PLANT LABELS
 FOR
TREES SHRUBS BULBS ETC.
 SAVE—ORDER DIRECT FROM FACTORY!
 16 Assorted Styles—Economically Priced
POT LABELS—CELLULOSE AND WOOD—ASSORTED LENGTHS
 • Durable • Variety of Colors •
PAPER STRAP LABELS
 • Economical • Plain or Printed •
WIRED LABELS—WOOD OR CELLULOSE
 • Easily attached • Attractively priced •
 Large Users—Write For Special Discounts Mentioning Quantities and Styles You Need. Free Catalog and Samples.
NATIONAL BAND & TAG CO. Dept. 5-844 NEWPORT, KY.

TWO PROFITABLE BOOKS FOR NURSERYMEN
HORSE-SENSE HORTICULTURE
 Retail for \$1.50
YOU CAN LANDSCAPE YOUR OWN HOME — Retail for \$1.00
 Special Introductory offer —
 1 of each \$1.50 postpaid.
 Descriptive Circulars Free.
THE MINNETONKA PUBLISHING CO.,
 400 Watertown Rd. LONG LAKE, MINN.

products, or as an inducement thereof, by any scheme which involves lottery or scheme of chance, is an unfair trade practice.

Rule 18. Defamation of Competitors or False Disparagement of Their Products

The defamation of competitors by falsely imputing to them dishonorable conduct, inability to perform contracts, questionable credit standing or by other false representations, or the false disparagement of competitors' products in any respect, or of their business methods, selling prices, values, credit terms, policies or services, is an unfair trade practice.

Rule 19. Prohibited Discrimination

I. Prohibited Discriminatory Prices or Rebates, Refunds, Discounts, Credits, Etc., Which Effect Unlawful Price Discrimination. It is an unfair trade practice for any member of the industry to grant or allow, secretly or openly, directly or indirectly, any rebate, refund, discount credit or other form of price differential if such rebate, refund, discount, credit or other form of price differential, effects a discrimination in price between different purchasers of goods of like grade and quality, where the effect thereof may be substantially to lessen competition or tend to create a monopoly in any line of industry product or to injure, destroy or prevent competition with any person who either grants or knowingly receives the benefit of such discrimination, or with customers of either of them: Provided, however,

(a) that the nursery stock involved in any such transaction is sold for use, consumption or resale within any place under the jurisdiction of the United States;

(b) that nothing herein contained shall prevent differentials which make only due allowance for differences in the cost of production, sale or delivery resulting from the differing methods or quantities in which such nursery stock is sold or delivered to such purchasers;

(c) that nothing herein contained shall prevent persons engaged in selling nursery stock from selecting their own customers in bona fide transactions and not in restraint of trade;

(d) that nothing herein contained shall prevent price changes from time to time where in response to changing conditions affecting the market for or the marketability of the nursery stock concerned, such as but not limited to distress sales under court process, or sales in good faith in discontinuance of business.

II. Prohibited Brokerage and Commissions. It is an unfair trade practice for any member of the industry to pay or grant, or to receive or accept, anything of value as a commission, brokerage or other compensation, or any allowance or discount in lieu thereof, except for services rendered in connection with the sale or purchase of nursery stock either to the other party to such transaction or to an agent, representative, or other intermediary therein where such intermediary is acting in fact for or in behalf, or is subject to the direct or indirect control, of any party to such transaction other than the person by whom such compensation is so granted or paid.

III. Prohibited Advertising or Promotional Allowances, Etc. It is an unfair trade practice for any member of the industry to pay or contract for the payment of advertising or promotional allowances or any other thing of value to or for the benefit of a customer of such member in the course of such commerce as compensation or in consideration for any services or facilities furnished by or through such customer in connection with the handling, sale or offering for sale of any nursery stock produced, sold or offered for sale by such member, unless such payment or consideration is available on proportionally equal terms to all other customers competing in the distribution of such nursery stock.

IV. Prohibited Discriminatory Services or Facilities. It is an unfair trade practice for any member of the industry to discriminate in favor of one purchaser against another purchaser or purchasers of nursery stock bought for resale, by contracting to furnish or furnishing, or by contributing to the furnishing of, any services or facilities connected with the handling, sale or offering for sale of such nursery stock, so purchased upon terms not accorded to all competing purchasers on proportionally equal terms.

V. Inducing or Receiving an Illegal Discrimination in Price. It is an unfair trade practice for any member of the industry knowingly to induce or receive a discrimination in price which is prohibited by the foregoing provisions of this rule.

VI. Exemptions. The prohibitions of this rule shall not apply to purchases of their supplies for their own use by schools, colleges, universities, public libraries, churches, hospitals and charitable institutions not operated for profit.

(Note: In complaint proceedings charging discrimination in price or services or facilities furnished, and upon proof having been made of such discrimination, the burden of rebutting the prima facie case thus made by showing justification shall be upon the

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person charged; and unless justification shall be affirmatively shown, the commission is authorized to issue an order terminating the discrimination; provided, however, that nothing herein contained shall prevent a seller rebutting the prima facie case thus made by showing that his lower price or the furnishing of services or facilities to any purchaser or purchasers was made in good faith to meet an equally low price of a competitor, or the services or facilities furnished by a competitor. See Sec. 2-b, Clayton Act.)

Rule 20. Aiding or Abetting Use of Unfair Trade Practices

It is an unfair trade practice for any person to aid, abet, coerce or induce another, directly or indirectly, to use or promote the use of any unfair trade practice specified in these rules.

GROUP II RULES (June 21, 1954, draft)

Trade practices which are considered to be conducive to sound business methods and which should be encouraged and promoted.

Nonobservance of such rules does not per se constitute violation of law. Where, however, the practice of not complying with any such Group II rules is followed in such manner as to result in unfair methods of competition, or unfair or deceptive acts or practices, corrective proceedings may be instituted by the Federal Trade Commission as in case of violation of Group I rules.

Rule A. The industry recommends that American Standard for Nursery Stock, as approved by the American Standards Association, be accepted as the authority for grades, standards and sizes of nursery stock.

Rule B. The industry recommends that advertising copy submitted to any advertising media follow the standards suggested jointly by the American Association of Nurserymen and the National Mail Order Nurserymen's Association, to wit:

(1) On all plants advertised, a true grade without misleading adjectives must be given. These grades must conform to the American Association of Nurserymen's standards.

(2) Where there is any question of true identity, the botanical name must be included in the listing.

(3) Where stock is not nursery grown, a statement must be made in the ad as to the true nature of the stock; that is, "collected wild stock," or that the "rose plants offered in this advertisement were previously used for forcing in greenhouses for cut flowers."

(4) When nursery stock is pictured, the illustration must be a reasonably true representation of the item.

Rule C. The industry recommends that the minimum standards of packaging nursery stock as adopted by the American Association of Nurserymen and the National Mail Order Nurserymen's Association (as amended) be followed, to wit:

(1) The roots of bare-root nursery stock consisting of, but not limited to, the following: Trees, shrubs, vines and ground covers, berry plants, perennials, roses, evergreens, must be packed in a wettable moisture-retaining material. Sphagnum moss is considered to be the most satisfactory material but shinglewood, softwood excelsior, peat moss and other like material may be used as a mixture or alone. This packing material must be wet enough and of sufficient bulk at shipping point to maintain a moist condition about the roots throughout the period the shipment is in transit, allowing for a reasonable shipping period.

(2) The packing material and the roots or butts of the plants must be wrapped or boxed in a waterproof material heavy enough to withstand normal shipping conditions. By waterproof material is meant a tar-centered paper or kraft paper waxed on one side or a kraft paper with a waxed or tarred paper liner or a plastic wrap. If a box is used, it should have a waxed or similar lining to insure retaining a moisture content for the roots of the plants.

(3) The tops of all bundles should be wrapped with a covering of paper, straw or similar material to protect the plant from injury and drying out.

(4) All bundles, boxes or similar containers must be either tied, stapled, sealed with tape or a glue or tar in such a manner as to insure delivery in good condition under normal postal and express handling.

Rule D. All members of the industry should follow the principles enunciated in the code of ethics of the American Association of Nurserymen, as follows:

(1) To regard the nursery business as an honorable and necessary profession, and to conduct myself and my business in such a manner as to enhance the standing of my vocation in its public acceptance.

(2) To deal fairly and justly with my customers and to condemn all forms of practices which tend to discredit the nursery industry or injure its public relations.

(3) To strive constantly and assiduously to improve my qualifications and proficiency in the industry and thereby merit the approbation and esteem of others.

(4) To adhere to the bylaws of the association and the code of fair business practices of the association and to foster its objectives.



NEW KULKONIZED REX PEAT MOSS

This well-known Rex Peat Moss is now available in new, chemically treated burlap. It's called Kulkonized Burlap—will not rot even when stored in damp areas over long periods of time. Strong, durable, Kulkonized Burlap Bales eliminate waste . . . permit faster work. As a result, you can enjoy the savings on quantity purchases without danger of loss or inconvenience in handling. Write today for descriptive literature and prices.

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Write for details!

THE GLEDHILL
ROAD MACHINERY CO.,
GALION, O.

FUTURE OF HOLLY CULTURE

[Continued from page 16]

ers may claim that they have more than 100 kinds of hollies. In such cases, the components are likely to be varieties and sports of species like *Ilex crenata*, *Ilex aquifolium*, *Ilex opaca*, *Ilex cornuta* or their hybrids, or unnamed growth forms.

One may argue that, although there are a limited number of species, the best forms have been selected. This may be true as far as the habit of the plant or the compactness of its foliage is concerned, but when the abundance and arrangement of the berries are concerned, this is not true.

Limited in Morphological Variations

Nature has produced a great many forms of holly. Space does not permit taking into consideration the habit of the plant, the form, size, shape, texture and arrangement of the leaves, nor the color, size, number of parts and the arrangement of the male flowers, nor the fruiting pedicels and the stigmatic remains on the fruit, nor the number and nature of the pyrenes (seeds). As most holly growers are interested in the size, abundance, color and arrangement of the berries of their plants, I shall limit the discussion to the arrangement of the berries on the shoot, which is known in plant taxonomy as infructescences. This character is sufficient to reveal the limitations of the cultivated hollies in morphological variations.

At first, the following descriptions of the various types of holly infructescences may be somewhat confusing to the reader. An occasional reference, however, to the illustrations will considerably simplify and clarify these differences.

The hollies are placed into two broad classes: Those with evergreen leaves and those with deciduous leaves. The evergreen class is divided into two groups. The first group of the evergreen class includes those hollies whose berries are borne on the current year's growth. Their fruits are either solitary or are borne on branched peduncles, but, in all cases, with only one single stalk arising from the axil of each leaf. This group is further divided into the following five fruiting types: *Cymosa*, *chinensis*, *pedunculosa*, *glabra* and the *opaca* type.

The *cymosa* type has large clusters of medium-size, scarlet fruits on elongated peduncles and branched axils. *Ilex cymosa* and *I. micrococca* are examples of this type.

The *chinensis* type has large, ellip-

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soid fruits in cymose clusters of from three to seven berries. Examples are *Ilex chinensis* of China and Japan and *I. lonicrifolia* of Taiwan. A derivative form of this type has berries in umbels instead of cymes, as represented by *I. rotunda* and *I. umbellulata*.

The pedunculosa type usually has solitary red fruits on elongated peduncles, although rarely there may be three berries in a cyme. *Ilex pedunculosa*, *I. yunnanensis* and *I. sugeroki* are illustrations of this type.

The glabra type has solitary black fruits; sometimes, rarely, this type has three berries in a cyme. *Ilex glabra* and *I. crenata* represent this group.

The opaca type has solitary fruits on moderately long stalks in the axils of bracts at the lower portion of the current year's growth. *Ilex opaca* and *I. coriacea* illustrate this type.

Second Group of Evergreen Hollies

The second group of the evergreen-leaved hollies contains those whose fruits are borne on the second year's or even older growth. In this group all the berries are fasciculate, that is, each leaf axil has several fruit stalks. This group, like the first, is further divided into five fruiting types: *Omeiensis*, *latifolia*, *aquifolium*, *tutcheri* and the *spicata* type.

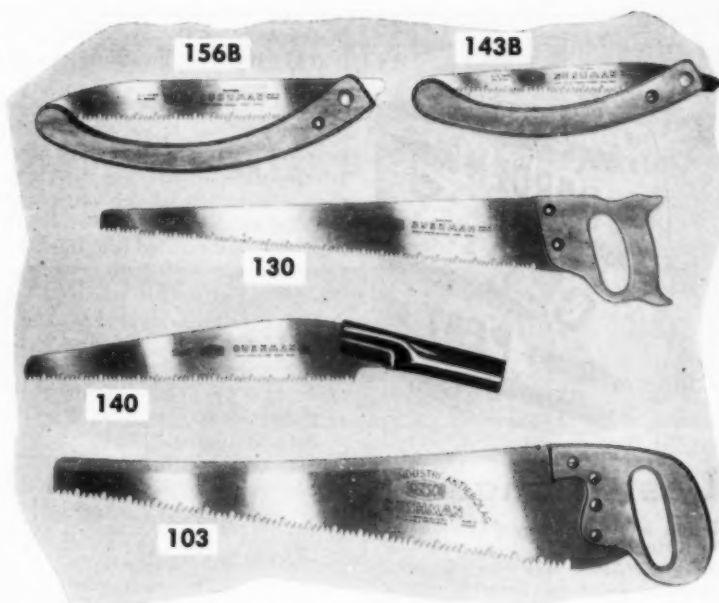
The *omeiensis* type has fasciculate umbels on both the current year's and older growth. *Ilex omeiensis* is an example of this type while *Ilex venulosa* represents a related type with fasciculate branched cymes.

The *latifolia* type has large fruits in big, axillary clusters. The beautiful *Ilex latifolia* is a good example of this type along with *I. denticulata* and *I. intermedia*.

The *aquifolium* type has fasciculate fruits in the axils of spiny leaves, as represented by the English and Chinese hollies, *I. aquifolium* and *I. cornuta*, respectively; or, in the axils of entire leaves, as illustrated by *Ilex integra*. *Ilex pernyi*, *I. bitorisensis*, and *I. ciliospinosa* are related forms having paired fruits with very short pedicels probably resulting through a reduction in both the number of berries and in the lengths of the pedicels.

The *tutcheri* type has fasciculate individual fruits on elongated pedicels on second year's and older growth. *Ilex hanceana* and *I. loh-fauensis*, with paired fruits, are a related type.

The *spicata* type has fasciculate elongated racemes of small red fruits



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in the axils of the leaves of second year's growth as illustrated by *Ilex spicata*.

In contrast to the evergreen hollies, the second broad class of this genus is those of the deciduous group—those which shed their leaves each winter. This class is not as complicated as the evergreen group, being simply subdivided into five types: *Geniculata*, *verticillata*, *montana*, *laevigata* and the *macrocarpa* type.

The *geniculata* type has solitary fruits on elongated peduncles, as seen in *Ilex geniculata*, the favorite holly of E. H. "Chinese" Wilson. Rarely three berries may be borne in a cyme.

The *verticillata* type has three (rarely, one) fruits on very short peduncles in the axils of the deciduous leaves. This is illustrated by *Ilex verticillata* in eastern North America and *I. serrata* in Japan.

Ilex laevigata represents the *laevigata* type with solitary fruits arising in the axils of the leaves.

The *montana* type has berries which occur either at the apex of abbreviated shoots fasciculate with the leaves or on elongated shoots in the same manner as the *verticillata* type. Representatives of the *montana* type are *Ilex montana* of America and *I. macrocarpa* of China and Japan.

The last of the deciduous group is the *macrocarpa* type illustrated by *Ilex macrocarpa*, *I. longipes* and *I. asprella*. In this type the berries are large and solitary on elongated pedicels.

Framework for Classification

The 15 general types of infructescences and their derivatives, combined with characters appertaining to the texture, shape, margin and venation of the leaves, to the arrangements of the male flowers and to the number and nature of the pyrenes, form the framework for the classification of the 500-odd species of hollies.

Among the hollies commonly cultivated in American gardens, there are only a few of these infructescences present. These are the *glabra*, the *opaca*, the *aquifolium* and the *verticillata* types. By comparing the infructescence of the cultivated hollies with some other types, it is apparent that most of them are inferior in the abundance and the arrangement of the fruits. It seems that the introduction of the *cymosa*, the *chinensis*, the *omeiensis*, the *latifolia* and the *tulcheri* types will consequently enrich the holly flora and will add beauties to American gardens.

[To Be Concluded]

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MICHIGAN CONFERENCE

[Continued from page 11]

their "Plant America" program from national, state, city and local authorities, he noted, and the homeowner is becoming increasingly cognizant of the advantages of beautifying his home. He emphasized the importance of bringing this slogan more and more to the public's attention by tying it into all phases of nursery advertising, using it in newspaper, radio and television advertisements, decals on trucks, signs at nurseries and, especially, on landscape jobs.

Sales Pointers

Mr. Palmer discussed a number of sales pointers, the first of which was that one must create a desire in the customer to buy a particular article. This can best be done by creating enthusiasm within the customer, and to do this a salesman must be enthusiastic about the particular product. Second, a salesman should obtain customer acceptance of each point as the advantages of the particular product are pointed out. Third, the salesman should ask for the order in a direct or indirect manner, depending upon the customer and the manner of conversation that has led to this particular point. Fourth, a salesman should not give the price of an article until the final statement has been made. If the customer insists upon knowing the price in the early stages of the sale, the salesman should immediately counter with the statement, "—but let me show you the advantages of this product." The fifth point that Mr. Palmer stressed was that firms should sell quality merchandise, as it speaks for itself; inferior products do not make repeat sales.

The afternoon meeting was chairmanned by M. L. Thomas, president of Central Michigan Nursery and Landscape Association. Mr. Thomas introduced the first speaker of the afternoon, Prof. D. N. Glick, of the department of landscape architecture and urban planning, who showed a series of slides illustrating contemporary landscape design. In Professor Glick's illustrated presentation, attention was called once again to the importance of the design as a whole. Professor Glick advised nurserymen to utilize not only plants to create the desired landscape effect, but also to utilize wood, concrete, metal and many other products, as they may lend themselves to the development of the landscape. Another portion of Professor Glick's presentation included a series of



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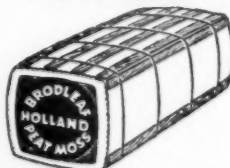
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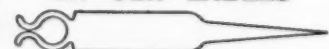
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slides showing the development of a landscape from the time that the contractors completed the house until the last shrub was planted.

After this presentation, the group went on a tour, during which they saw homes that had been landscaped both recently and in years past, so that they could thus compare the changing styles. One of the homes that were visited was one that was discussed by Professor Glick. At the completion of the tour the buses returned the conferees to the banks of the Red Cedar river where all enjoyed a pleasant interlude at a chicken barbecue.

"What's New in Michigan?"

The evening meeting, under the chairmanship of Harold Davidson, was a presentation by men of the industry relative to "What's New in Michigan?" John Stark, of Midland, illustrated with slides his new community garden store. Mr. Stark said that this particular garden store was designed in keeping with the architecture of the city. He was well pleased, he stated, with the first season's results in that his cash-and-carry sales have more than doubled.

Nursery irrigation was illustrated by Peter Christensen, Plymouth Nursery, Livonia, who showed slides of the construction of a pond. The method of laying and utilizing aluminum pipe for irrigation was stressed. He stated that during the recent dry period the irrigation system has begun to pay for itself. He also illustrated a method of watering potted plants, whereby a level concrete slab with a coping is built, upon which a large quantity of container plants may be placed. Water is allowed to flow into this basin and then by capillary action the water penetrates up into the soil ball. Mr. Christensen indicated that this has considerably reduced the cost of watering potted plants and has also reduced the disease problem.

"Walls and Patios" was the topic discussed by Robert Frantz, Hunziker Nursery, Niles. Mr. Frantz showed by slides how one can greatly improve certain areas by proper wall construction and how an attractive outdoor living room can be created in the development of a modern patio.

Tying in somewhat with the talk by Mr. Frantz was the topic, "Lawns and Bank Development," by Melvin Peckosh. Mr. Peckosh showed by slides a method for holding somewhat steep banks, whereby chicken wire is staked in place to the ground and then overplanted with

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sod. Another method is to plant multiflora roses or other plants of a creeping nature, interplant with oats and then mulch the entire area with straw.

The latest developments in canning nursery stock were discussed by James Ilgenfritz. He indicated that his nursery has developed a method whereby the can is forced into the ground about the roots of the plant, removed, and the base of the can replaced by a most ingenious but simple method. Mr. Ilgenfritz had samples of various types of shrubs and evergreens on the stage to illustrate his method of merchandising plant materials in cans.

The final speaker of the evening was Dr. F. J. McDonald, Saginaw, who showed a series of color display pictures that are used by his nursery as a merchandising aid in the selling of dormant stock in the spring. The pictures show the plants' ultimate development. He invited nurserymen who were interested in obtaining similar pictures to write to him for further information.

Wednesday Program

The Wednesday morning program began with a good start chair-manned by President John J. B. Light, of the Michigan Association

of Nurserymen, who introduced Dr. Donald P. Watson. Dr. Watson discussed the Michigan nursery industry and distributed a booklet, entitled "From Seedlings Grow a Giant Business," to the membership. After quoting some interesting and valuable statistics relative to the position of the nursery industry as a leader in the field of agriculture, Dr. Watson reminded the nurserymen that they are no longer just farmers growing a crop, but that they are farmers, manufacturers and businessmen rolled into one, an important part of a growing industry. He stated that with importance comes responsibility—responsibility to the public, to the industry and for future growth. One interesting fact that Dr. Watson pointed out was that people spend 7.5 per cent of their budgets on apparel, 15 per cent on automobiles and only 0.2 per cent to landscape their homes and offices. This, he stated, points an accusing finger at the nursery industry as to the fulfillment of its responsibility of educating the public in the pleasures to be had from home and industrial beautification.

"Potting Soils for Roses" was the topic for discussion by Dr. Fred B. Widmoyer, who was recently appointed to the staff at Michigan

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State College. In an experiment with various types of soils mixed with varying quantities of sand and manure, Dr. Widmoyer found that those plants which were supplied with manure made more and better growth than those grown in soil without manure. From present appearance, he said, the plants that were grown in one third soil, one third manure and one third sand are of better quality.

"Radio and Television Advertising" was discussed by Wayne Wright, who suggested that nurserymen will secure the most for their advertising dollar if they will use a combination of radio, television and newspaper advertising. He stated that each has its advantages and disadvantages. The advantages of newspaper advertising are that it is visual, available at various times of the day, and the readers have a tear sheet which they can use when shopping. The disadvantage may be that competitive ads appear back to back or the advertising may be buried within the paper. Radio advertising has the advantage of a captive audience of a specialized nature. This audience may be contacted several times a day; however, radio does not provide anything to see nor anything to keep. Television advertising, although relatively expensive, does provide animation as well as visual and auditory reception, stated Mr. Wright.

Dr. Mahlstede Speaks

The final speaker on the program was Dr. John Mahlstede, professor of horticulture, at Iowa State College, Ames, Ia., who spoke on "Chemical Weed Control in the Nursery." Dr. Mahlstede referred to the fact that weeds in the nursery cost money by reducing size and quality of plant materials. He also noted that weeding is an expensive item in nursery production, which can be reduced considerably by chemical weed control practices. He cautioned, however, that chemicals should not be used indiscriminately, but that a thorough knowledge of their usefulness and limitations must first be obtained.

WEST VIRGINIA Christmas tree growers, representing approximately 2,000,000 growing trees, formed an association recently to bring about increased production and improved marketing methods.

LEWIS F. LIPP, formerly propagator at Arnold Arboretum, Jamaica Plain, Mass., is now propagator at Holden Arboretum, Mentor, O.

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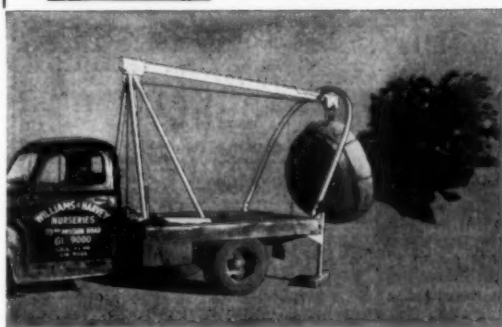
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RHODODENDRONS

[Continued from page 15]

fect this date. Of course, weather is the most important single condition. In a wet season where the plants continue to make active soft growth, this date may have to be deferred until perhaps the middle of August. Another reason which may cause the date to be deferred is that the stock plants may have been pinched after making the first surge of spring growth. This, it may be remembered, was a method which was suggested for the production of suitable thin-stemmed cuttings. If the first growth is pinched just about the time it is complete — that is, the middle of June in southern New Jersey—the second surge of growth will result in three or four thin-stemmed shoots being produced from the top of each individual stem. These secondary shoots are ideal cuttings, but, because of the pinching, their development may be delayed by as much as two or three weeks, and consequently the timing schedule is thrown backward by this same amount. On established stock plants which have not been interfered with in any way, certain varieties will be ready to take about the third week in June. Two are *Purpureum Elegans* and *Lee's*

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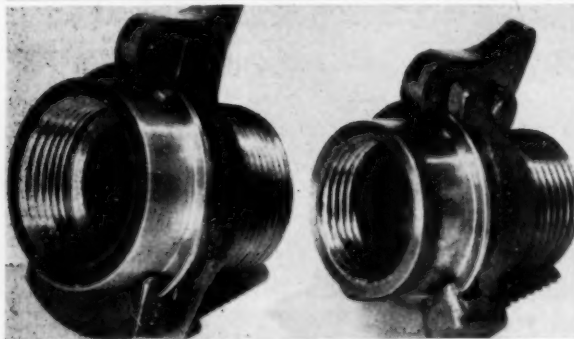
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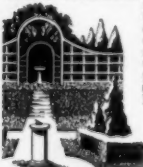
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Dark Purple. Why it should be so I do not know, but these dark purple varieties seem to grow earlier in the season and therefore mature first. Another variety which is similar in its growth habits is Cunningham White, and to illustrate the importance of timing on these varieties, I would like to give a few results from tests which were made in the past.

Results From Past Tests

On Cunningham White, cuttings which were taken on July 11, 1949, rooted 100 per cent, whereas cuttings taken on August 10 rooted only 65 per cent. On Lee's Dark Purple, cuttings taken on July 11 rooted 64 per cent, while similar cuttings taken on August 16 and treated in a similar manner, rooted only 32 per cent. With these varieties, therefore, there is an optimum period which might be any time between the end of the second week in July and the end of the first week in August. Cunningham White is considered to be a most easy one to root and yet I have taken cuttings of this variety late in the autumn, at the end of October, and only had low percentages.

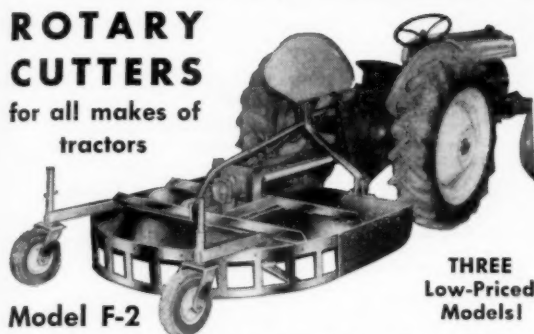
The variety America, which is one that many will wish to grow, is equally temperamental. Cuttings taken on July 11 rooted only 16 per cent, whereas similar cuttings taken on August 16 rooted 80 per cent, and cuttings taken on September 5 rooted only 36 per cent. Cuttings taken on this last date and treated with a much stronger hormone powder came up with a 64 per cent strike, but similar cuttings of the same variety taken on November 10 and treated with an extremely strong hormone powder, rooted only 45 per cent. It will be seen from this range of results and dates that a period about the middle of August would appear to be the best for the variety America, and this has been proved in subsequent commercial production. Some of the later batches which were taken in September and October could have been rooted if left in the greenhouse for a sufficient length of time, but this often meant from six to eight months. The cuttings which were taken on November 10 finally rooted late the following June, and, by holding the cuttings for that length of time, the original percentage of 45 per cent was increased to 62 per cent. However, there is no point in taking cuttings at this late time if one can obtain percentages as high as 80 per cent by taking them at the right time,

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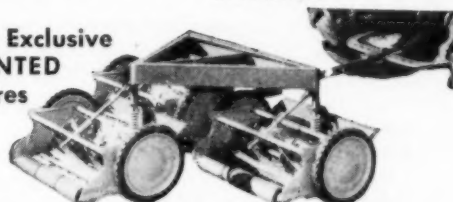
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which would appear to be about the middle of August.

In addition to the timing, we must consider the question of hormone treatments, because the two go hand in hand. We found on the variety America, that excellent results could be obtained if the time were exactly right with Merck's No. 3 hormone powder. The 80 per cent strike recorded above was so treated, but, if the timing were just a little bit off—if we were slightly after the optimum date—then a stronger treatment was to be preferred. As we usually erred on the late rather than the early side, it was found best to wait until the third or fourth week in August and treat with 2 per cent indolebutyric acid in talc. This, to a certain extent, eliminated the highly critical timing necessary to produce good results with the lower strength powder and enabled us to have a little more latitude in planning the work and yet still obtain sound commercial percentages. The illustration will give some idea of how these cuttings of the variety America appeared as they were lifted from the propagation bench, after treatment with 2 per cent indolebutyric acid.

English Roseum is another variety that prefers to be taken on the early side. We obtained better



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percentages late in July than at any other time, but found that when we prepared our cuttings by pinching the stock plants as described earlier, cuttings could be taken late in August and early in September and excellent percentages received. One variety in which the question of timing stood out with remarkable clarity was the variety E. S. Rand. In tests on this variety, together with variety Dr. Dresselhuys, to endeavor to find a suitable hormone which would root them, we also had to consider the question of timing; therefore, cuttings were inserted on three dates—August 8, August 20 and September 5. The difference in the percentage of rooting in the cuttings taken from the same stock plants and inserted in the same greenhouse under identical conditions on these three dates is most extraordinary. Cuttings were inserted on the dates given and lifted at intervals of three, five and seven months. At the end of seven months, all the cuttings that had rooted were recorded, and any that had not rooted were thrown away. The cumulative percentage of well-rooted plants was 30 per cent on those taken on the first date, 50 per cent on those taken on the second date and 100 per cent on those taken on the last date. However, the cuttings inserted on September 5 rooted somewhat slowly. They remained in excellent condition in the bench, but did not root until the following March. They were finally lifted and potted on April 9, when they were 100 per cent well rooted. It is clear that, with this variety, hormones, whether excessively strong or otherwise, are not the complete answer.

Failure With July Cuttings

In previous tests we had tried cuttings taken in July, but had almost complete failure. It will be seen, therefore, that E. S. Rand has a steadily increasing ability to root, under optimum conditions, from month to month starting with practically nothing in July, a 30 per cent early start in August, a 50 per cent

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late one in August and 100 per cent early one in September. Subsequent commercial production showed that this ability to root increased still further through September and into October, and cuttings which were taken as late as the end of October rooted remarkably well, provided all other conditions were optimum.

Now, this is a somewhat extreme case, I know, yet I record it because it clearly illustrates the great difference which exists between individual varieties of rhododendrons. It is also something which makes the propagation of this plant intensely interesting, because one cannot work with any rule of thumb. Each variety is an individual one and has to be treated as such. It is up to the keen propagator to find out by careful examination and testing the individual requirements of each variety in which he is interested.

Everestianum has consistently defeated me, but I believe from the small amount of work which we were able to do, that here again is a variety which can be rooted if the correct time can be found. Our original tests showed a 4 per cent rooting in July, an 8 per cent rooting in August and a 22 per cent rooting in September, but, of course, these percentages were not commercially sound, and I have not had an opportunity to pursue the matter further.

Variety Gives Rooting Problems

One variety which had completely defeated me and for which I still have not found the proper answer is variety Mrs. C. Sargent. Perhaps someone somewhere is rooting this variety successfully, and, if so, I do hope he will write me about his experiences, because I have never had any rooted cuttings worth considering.

Generally speaking, the easier varieties such as Roseum Elegans and the whole Catawbiense group root best in September and October. I prefer to take somewhat firm harder cuttings later in the season and treat with a slightly stronger hormone powder in order to obtain vigorous rooting. However, Roseum Elegans, Catawbiense Grandiflorum, Catawbiense Boursault and similar varieties will all root well if taken the middle of September into October and treated with Merck's No. 3 powder. Some of the slightly more difficult varieties will certainly respond to a stronger hormone treatment, and this is where the 2 per cent indolebutyric acid comes into the picture. Variety America responds



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to this treatment—I certainly would not call America a difficult variety to root—and so does Ingatius Sargent, Kate Waterer, Cynthia, Charles Bagley and Parson's Gloriosum. When we come down to the tough variety Dr. Dresselhuys, then we really have to bring all the heavy guns to bear in order to root this successfully; however, timing is again of importance, and from the end of the first week of August to the end of the first week in September would seem to be about right for southern New Jersey, this being for plants which have been pinched to induce the breaking of lateral shoots. But, in order to root this difficult variety, we found that a much stronger hormone powder had to be used, and, if we did so, then cuttings taken at the right time, wounded, put into the right medium and left for not less than seven months under humidification, gave us up to 90 per cent rooting. The chemical used was 2, 4, 5-Trichlorophenoxy alpha propionic acid.

Strong Powders Not Harmful

Our original tests of these chemicals on difficult red-flowered varieties were carried out in 1951. Afterward we went into fairly considerable commercial production of variety Dr. Dresselhuys in particular, using these strong hormones. As a result, we rooted a fair number of cuttings, and I have been able to watch the subsequent development of these plants and to determine whether any harmful aftereffects could be seen. I am glad to report now that after rooting, the plants grew without trouble and have grown into first-class material. A good initial development of the rooted cuttings of variety Dr. Dresselhuys early in the spring of the year succeeding rooting—that is their first year in the field—and a vigorous growth of the terminal bud were results noted. I have a report from New Jersey that these plants now in their second year are growing well indeed and setting excellent buds. There seems no doubt that cuttings rooted with these strong powders are not harmed in any way. This is an important point upon which I feel sure nurserymen would want some assurance.

I mentioned earlier that to some extent we had refined our methods of treating the plants, and I would like to elaborate on this briefly. Our normal period of taking cuttings is from the end of July to the first of November. Once the cuttings are rooted, they are immediately potted

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into a suitable potting mixture and at that time the terminal bud of the rooted cutting is pinched out. This can clearly be seen in the illustration of the variety America cuttings. The purpose of this is to induce the swelling and development of the lateral buds on the rooted cuttings through the winter. By doing this at the time we pot the cuttings instead of later in spring, we find that from two to three weeks' growing time is saved in the following season. Now, in New Jersey, this may well mean the difference between two and three sets of growth and a considerable difference in the over-all size of the plant at the end of the first growing year.

Pinching Effect on Roseum Elegans

The effect of pinching can clearly be seen by observing a plant of Roseum Elegans or any other first-class, 1-year-old plant. By pinching the terminal bud from the cutting at the time we potted it in November, the side shoots were induced to swell and develop through the winter. Rhododendrons are often active early in the spring before this activity actually is noticed. The plants were set out early in the spring with plump, fat buds around the top of the cutting which were ready to break into active growth as soon as the spring weather warmed. The plants broke into early growth and produced five to six

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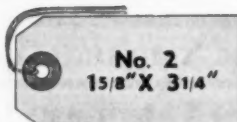
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shoots around the top of the original cutting. These settled down, having made their first flush of growth, and the terminal buds were again pinched about the middle of June. The side buds again developed, and the plant which is illustrated appeared as shown by the middle of September.

Conditions for Vigor

Now, this vigor of development and complete branching is only possible when the dormant buds which are induced into activity by our pinching have sufficient time to come into proper active growth. Growing time is one factor over which there is little control, and the more time given to the plant to produce the required growths the better the results will be. The pinching of the cuttings at the time of potting is important in relation to this question of growing time, for by thus allowing the terminal buds to develop slowly through the winter, three to four weeks time is saved which can be devoted by the plant to the development of its normal growth later in that year. The cumulative effect of this additional growing time is considerable. We have a fine first-class, 3-year-old plant of Roseum Elegans which has been so treated from the beginning. Here is a well-branched vigorous plant which has numerous flower buds and is, of course, in every way a highly desirable and salable plant. Such a plant, however, is only produced by watching with close attention to detail these small aspects of culture right from the beginning.

In the hope that this information may be of some value to growers, I am presenting on page 14 in tabular form the details as to time, hormone treatment and best percentage rooted of the various varieties of rhododendrons with which we worked in New Jersey. This information is far from complete, and, therefore, I would be most grateful to hear from any grower in any other part of the country if he has additional information which could be added to this list and in time passed on to other interested persons.

All cuttings were thin as far as possible taken from side growths on established trees. In many instances these thin growths were obtained by earlier pinching of the stock plants. All cuttings were wounded with a heavy wound. The medium used was an 80 to 90 per cent Dutch peat and 10 to 20 per cent coarse sharp sand, bottom heat 75 degrees Fahrenheit and constant high humidification with a fog line.

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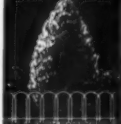
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